This document was too large to scan as a whole document, therefore it required breaking into smaller sections.

Document number: <u>SD-WM-DP-/35</u>
Section / of 2
Title: 90 DAY SAFETY SCREEN RESULTS and FINAL
REPORT FOR TANK 241-BX-103, PUSH MODE.
CORES 86 and 87
Date: <u>9/07/95</u> Revision:_/
Originator: KEVIN E. BELL
Co: WHC
Recipient:
Co:
References: ECN-623834

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COMPLETE

	ENGINEERING (CHANGE NOTICE	Page	1 of _2	1. ECN Nº 623834
2. ECN Category	3. Originator's Name	, Organization, MSIN,	3a. USQ Requ	uired?	4. Date
(mark one) Supplemental [] Direct Revision [X] Change ECN []	and Telephone No. Kevin E. Bell/(Plans, Coordin Reports/T6-06/	Characterization ation and	[] Yes [X] No	08/22/95
Temporary [] Standby []	Project Title/No.		6. Bldg./Sys	s./Fac. No.	7. Approval Designator
Supersedure [] Cancel/Void []		103, Push Mode, 86 and 87	N/	'A	Q
	8. Document Numbers (includes sheet r	Changed by this ECN	9. Related i	CN No(s).	10. Related PO No.
	· ·	DP-135, Rev. 0	N/	A	N/A
11a. Modification Work	11b. Work Package	11c. Modification Work		11d. Restor	ed to Original Condi-
[] Yes (fill out Blk. 11b)	No. N/A	N/A		N/A	or Standby ECN only)
[X] No (NA Biks. 11b, 11c, 11d)		Cog. Engineer Signatu	ıre & Date	Cog. Eng	ineer Signature & Date
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13a. Justification (mark of Criteria Change		ra	רח		
Criteria Change [] As-Found []	Design Improvement Facilitate Const	[] Environmental	[] mission []		ty Deactivation [] Error/Omission [X]
13b. Justification Details This ECN will assis		tion of the docume	entation pi	rocess for	a this document

A-7900-013-2 (11/94) GEF095

1. ECN (use no. from pg. 1) **ENGINEERING CHANGE NOTICE** Page 2 of 2 ECN-623834 17. Schedule Impact (days) 16. Cost Impact 15. Design Verification CONSTRUCTION **ENGINEERING** Required Additional Additional [] . \$ Improvement [] Yes Savings \$ De:ay Savings \$ [X] No Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 12. Enter the affected document number in Block 19. Seismic/Stress Analysis Tank Calibration Manual SDD/DD Functional Design Criteria Stress/Design Report Health Physics Procedure Interface Control Drawing Spares Multiple Unit Listing Operating Specification Calibration Procedure Test Procedures/Specification Criticality Specification Installation Procedure Component Index Conceptual Design Report Maintenance Procedure ASME Coded Item Equipment Spec. ٢٦ [] **Human Factor Consideration** Const. Spec. Engineering Procedure Operating Instruction Computer Software Procurement Spec. Operating Procedure Electric Circuit Schedule Vendor Information OM Manual Operational Safety Requirement ICRS Procedure FSAR/SAR IEFD Drawing Process Control Manual/Plan [] Process Flow Chart Safety Equipment List Cell Arrangement Drawing Radiation Work Permit **Essential Material Specification** Purchase Requisition Fac. Proc. Samp. Schedule Tickler File **Environmental Impact Statement** Inspection Plan **Environmental Report Environmental Permit** Inventory Adjustment Request 19. Other Affected Documents: (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below. Document Number/Revision Document Number/Revision Document Number Revision N/A 20. Approvals Signature Date Signature Date OPERATIONS AND ENGINEERING ARCHITECT-ENGINEER Cog. Eng. K.E. Bell Kim Kill Cog. Mgr. J.G. Kristofzski QA PA E. W. Miller & W. Mille. Safety Safety Design Environ. Environ.

Other

ADDITIONAL

DEPARTMENT OF ENERGY

Signature or a Control Number that tracks the Approval Signature

-30.45

A-7900-013-3	(11/94)	GEF096

Other Program Support

RELEASE AUTHORIZATION

Document Number:

WHC-SD-WM-DP-135, REV 1

Document Title:

90-Day Safety Screen Results and Final Report for

Tank 241-BX-103, Push Mode, Cores 86 and 87

Release Date:

9/6/95

This document was reviewed following the procedures described in WHC-CM-3-4 and is:

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Kara M. Broz

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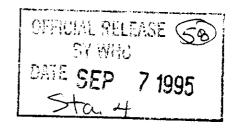
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SUPPORTING DOCUMENT	1	. Total Pages 240
2. Title 90-Day Safety Screen Results and Final Report for Tank 241-BX-103, Push Mode, Cores 86 and 87	3. Number WHC-SD-WM-DP-135	4. Rev No.
5. Key Words 90-Day, Safety Screen, Safety Screen Results, Final Report, Tank 241-BX-103, Tank BX-103, BX- 103, Push Mode, Core 86, Core 87	Name: Kevin E. Be	Rell

7. Abstract

N/A

8. RELEASE STAMP



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RECORD OF REVISION

(1) Document Number WHC-SD-WM-DP-135

Page A

(2) Title

90-Day Safety Screen Results and Final Report for Tank 241-BX-103. Push Mode. Cores 86 and 87

	CHANGE CONTROL RECORD		
		Authori	zed for Release
(3) Revision	(4) Description of Change - Replace, Add, and Delete Pages	(5) Cog. Engr.	(6) Cog. Mgr. Date
0	7) Initially released 07/18/95 on EDT-612167.	K.E. Bell	J.G. Kristofzski
RS 1	Incorporate per ECN-623834	K.E. Bell Vin Rolf	J.G. Kristofzski

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ANALYTICAL SERVICES

90-DAY SAFETY SCREEN RESULTS AND FINAL REPORT FOR TANK 241-BX-103 PUSH-MODE, CORES 86 AND 87

Date Printed:

AUGUST 23, 1995

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PART I

WHC-SD-WM-DP-135, REV. 1

90-DAY SAFETY SCREEN RESULTS AND FINAL REPORT FOR TANK 241-BX-103 PUSH-MODE, CORES 86 AND 87

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NARRATIVE

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90-DAY AND FINAL REPORT FOR TANK 241-BX-103 PUSH-MODE CORE SAMPLES 86 AND 87.

1.0 INTRODUCTION AND SUMMARY

This is the 90-day and final report for the fiscal year 1995 tank 241-BX-103 (BX-103) push-mode characterization effort. It transmits additional extrusion information and analytical data not provided in the 45-day report (Bell 1995a) and includes all raw analytical data not reported in that reference. Also included in this data package for each segment extruded are copies of the chain of custody forms, hot cell work plans, extrusion reports, photographs, subsampling worksheets, and Labcore sample numbers.

Drainable liquids and the field blank from tank BX-103 were analyzed directly at the segment level for energetics by differential scanning calorimetry (DSC) and percent water by thermal gravimetric analysis (TGA). In addition, the presence or absence of any separable, presumably organic, layer in liquid samples was noted and none was observed. Solid samples were analyzed directly at the half segment level for energetics by DSC and percent water by TGA. Total alpha activity was determined on fusion digestions of the solid subsamples. Analytical results for all DSC, TGA, and total alpha analyses were reported in Bell (1995a). No notification limits were exceeded on any analyses. However, the percent water by TGA was less than 25% on the upper half of segment 2 of core 87, therefore percent water by gravimetry was performed on that sample as requested in Johnson (1995).

2.0 SAMPLE RECEIPT AND EXTRUSION

Core samples 86 and 87 from tank BX-103, obtained by the push-mode core sampling method, were received by the 222-S Laboratories. Each core consisted of two segments. Both core samples and the field blank were extruded, subsampled, and analyzed in accordance with the BX-103 tank characterization plan (TCP)(Bell 1995b). Copies of the chain of custody forms associated with each of the samples are provided as Attachment 1.

Extrusions of core samples 86, 87, and the field blank took place on May 31, June 5, and June 5, 1995 respectively. Details of the extrusions are provided in hot cell work plans that were followed for each of the segments extruded. Copies of the completed hot cell work plans are included as Attachment 2. Pertinent extrusion information is provided in extrusion reports; included as Attachment 3.

Color photographs were taken of each segment immediately following extrusion. Black and white photocopies of these photographs are included as Attachment 4, however the original pictures are kept on file and may be viewed by contacting Program Support at the 222-S Laboratory.

3.0 SUBSAMPLING

As indicated above, material from each extruded segment was subsampled into sample jars as directed in (Bell 1995b). Aliquots for analysis were removed from these jars and placed into sample vials as prescribed in subsampling worksheets. Copies of these worksheets are included as Attachment 5. The identity of the sample jars and aliquot vials, subsample and aliquot weights, and Labcore sample numbers (See Section 4.0.) associated with each sample are summarized in Tables 1A and 1B below.

4.0 ANALYTICAL RESULTS

Analytical results were tracked and reported using the laboratory information management system known as Labcore. Each aliquot taken for analysis has a unique sample number and sample identification. A listing of each Labcore sample number and affiliated test associated with this sampling and analysis project is provided as Attachment 6. The last item in the attachment is a description of the test acronyms.

Additional extrusion results are presented in Table 2, and the percent water by gravimetry results are presented in Table 3. These tables include the LabCore sample numbers. Data in Table 2 is physical data, such that standards, blanks, duplicates, and spikes do not apply. Checks to ensure analytical balances are in calibration were performed and this information is present in the raw data.

4.1 PERCENT WATER BY GRAVIMETRY

Weight percent water was performed by gravimetry on the upper half of segment 2, core 87 using procedure LA-564-101, Rev. E-3. Initial results were 17.38 and 32.44% water for the sample and duplicate, respectively. The analysis was re-run due to the high relative percent difference between the sample and duplicate results. The average of the sample and duplicate determination of the re-run was 23.50% water, which compares very well with the results determined by TGA (23.14%).

5.0 REFERENCES

- Bell, K. E., 1995a, 45-Day Safety Screen Results for Tank 241-BX-103, Push-Mode, Cores 86 and 87, WHC-SD-WM-DP-135, Rev. 0, Westinghouse Hanford Company, Richland, Washington.
- Bell, K. E., 1995b, *Tank 241-BX-103 Tank Characterization Plan*, WHC-SD-WM-TP-339, Rev. O, Westinghouse Hanford Company, Richland Washington.
- Johnson, G. D., 1995, "Action Item for Laboratory Restart", Internal Memo dated June 23, 1995 from Safety Engineering to J. G. Kristofzski.

Project Coordinator: Kevin E. Bell

Table 1A. Subsampling and Sample Load-Out Information for Tank BX-103, Core 86.

Segment	Subsample Location	Original Vial or Jar	Original wt (g)	Transferred to vial or jar	Aliquot wt (g)	LabCore Sample #
1	liner liq.	vial 7173	<5 mL	vial destroyed	n/a	S95T001012
1	drn. liq.	jar 6945	221.71	vial 6997 ¹	9.64	S95T001014,1019,1032
1	drn. liq. archive	jar 6945	221.71	vial 7183	47.34	S95T001030
1	UH solids	jar 6796	33.91	vial 7052	6.79	S95T001016,1021,1024
1	UH solids archive	jar 6796	33.91	vial 7181	16.59	S95T001027
2	liner liq.	vial 7179	<5 mL	vial destroyed	n/a	S95T001013
2	drn. liq.	jar 6947	21.39	vial 7055 ²	10.05	S95T001015,1020,1033
2	drn. liq. archive	jar 6947	21.39	vial 7184	3.60	S95T001031
2	UH solids	jar 6797	86.68	vial 7053	9.31	S95T001018,1023,1026
2	UH solids archive	jar 6797	86.68	vial 7182	64.80	S95T001029
2	LH solids	jar 7138	195.54	vial 7056	8.40	S95T001017,1022,1025
2	LH solids archive	jar 7138	194.54	vial 7185	55.95	S95T001028

Notes:

drn. liq. - drainable liquid liner liq. - liner liquid

UH - upper half of segment LH - lower half of segment

¹Because of its turbidity, an aliquot from jar 6945 was centrifuged for approximately 1 hr. before the clarified liquid was decanted into vial 6997. ²Because of its turbidity, an aliquot from jar 6947 was centrifuged for approximately 1 hr. before the clarified liquid was decanted into vial 7055.

Location Vial or Jar vial or jar (g) wt (g) S95T001523,1034,1043 vial 70591 15.36 jar 7140 214.51 1 drn. liq. S95T001530 vial 7193 49.14 jar 7140 214.51 1 drn. liq. archive 8.84 \$95T001525,1038,1041 vial 7061 **UH** solids jar 7070 70.10 1 S95T001532 vial 7195 51.34 70.10 1 UH solids archive iar 7070 S95T001524,1037,1042 vial 7057 LH solids iar 6799 24.54 7.27 1 vial 7192 7.23 S95T001531 24.54 LH solids archive iar 6799 vial 7058² 16.31 S95T001526,1035,1044 vial 7169 18.25 2 drn. liq. (T) vial 7060 10.39 S95T001527,1039,1040 2 **UH** solids jar 7141 244.71 S95T001533 2 UH solids archive jar 7141 244,71 vial 7194 69.01 S95T001529 jar 7139 238.69 no transfer n/a FB drn. liq. 38.02 S95T001528, 1036 drn. liq. jar 6798 39.34 vial 7191 FB

Table 1B. Subsampling and Sample Load-Out Information for Tank BX-103, Core 87.

Transferred to

Aliquot wt

Original

Notes:

Segment

Subsample

¹Because of its turbidity, an aliquot from jar 7040 was centrifuged for approximately 1 hr. before the clarified liquid was decanted into vial 7059. ²Because of its turbidity, the contents of vial 7169 were centrifuged for approximately 1 hr. before the clarified liquid was decanted into vial 7058.

Original

drn. liq. - drainable liquid liner liq. - liner liquid

UH - upper half of segment LH - lower half of segment

FB - field blank

LabCore Sample #

Table 2. BX-103 Extrusion Summary - Cores 86 and 87. BX-103

CORE NUMBER: 86 SEGMENT #: 1

OILL COME OF MICE	,,,											
Sample# F	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000970	\top	Solids Recovered - Weight	g	n/a	n/a	33.00	n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T000970	1	Organic Vol Present / hotcell	mL	n/a	n/a	0.00e+00	n/a	n/a	n/a	n/a	n/a	n/a
S95T000970	T	Notebook with source data		n/a	n/a	N-1173	n/a	n/a	n/a	n/a	n/a	n/a
S95T000970	1	Liner Liquid Recoverd - Weight	g	n/a	n/a	< 5	n/a	n/a	n/a	n/a	n/a	n/a
S95T000970	T	Extrusion of a Segment		n/a	n/a	complete	n/a	n/a	n/a	n/a	n/a	n/a
S95T000970	\top	Drainable Liquid Recoverd - Wt	g	n/a	n/a	221.0	n/a	n/a	n/a	n/a	n/a	n/a

Table 2. BX-103 Extrusion Summary - Cores 86 and 87. BX-103

CORE NUMBER: 86 SEGMENT #: 2

PURITUR: W Y	note	segment										
Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000971	1	Solids Recovered - Weight	9	n/a	n/a	282.0	n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T000971	[Organic Vol Present / hotcell	mL	n/a	n/a	0.00e+00	n/a	n/a	n/a	n/a	n/a	n/a
S95T000971		Notebook with source data		n/a	n/a	N-1173	n/a	n/a	n/a	n/a	n/a	n/a
S95T000971		Liner Liquid Recoverd - Weight	g	n/a	n/a	< 5	n/a	n/a	n/a	n/a	n/a	n/a
S95T000971		Extrusion of a Segment		n/a	n/a	complete	n/a	n/a	n/a	n/a	n/a	n/a
S95T000971		Drainable Liquid Recoverd - Wt	g	n/a	n/a	21.00	n/a	n/a	n/a	n/a	n/a	n/a

Table 2. BX-103 Extrusion Summary - Cores 86 and 87. BX-103

CORE NUMBER: 87 SEGMENT #: 1

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001004		Solids Recovered - Weight	g	n/a	n/a	94.00	n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T001004		Organic Vol Present / hotcell	mL	n/a	n/a	0.00e+00	n/a	n/a	n/a	n/a	n/a	n/a
S95T001004	$\cdot 1$	Notebook with source data		n/a	n/a	N-1173	n/a	n/a	n/a	n/a	n/a	n/a
S95T001004		Liner Liquid Recoverd - Weight	9	n/a	n/a	0.00e+00	n/a	n/a	n/a	n/a	n/a	n/a
\$951001004	-	Extrusion of a Segment		n/a	n/a	complete	n/a	n/a	n/a	n/a	n/a	n/a
S95T001004		Drainable Liquid Recoverd - Wt	g	n/a	n/a	214.0	n/a	n/a	n/a	n/a	n/a	n/a

Table 2. BX-103 Extrusion Summary - Cores 86 and 87. BX-103

CORE NUMBER: 87 SEGMENT #: 2

PURITUR: W Who	t e	Sediller if										
Sample#R	A#	Analyte	 Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %		Count Err%
S95T001005	1	Solids Recovered - Weight	g	n/a	n/a	244.0	n/a	n/a	n/a	n/a	1.00e- <u>02</u>	n/a
S95T001005	1	Organic Vol Present / hotcell	mL	n/a	n/a	0.00e+00	n/a	n/a	n/a	n/a	n/a	
S95T001005	1	Notebook with source data		n/a	n/a	พ-1173	n/a	n/a	n/a	n/a	n/a	
S95T001005	1-	Liner Liquid Recoverd - Weight	g	n/a	n/a	< 5	n/a	n/a	n/a	n/a	n/a	
S95T001005	Τ	Extrusion of a Segment		n/a	n/a	complete	n/a	n/a	n/a	n/a	n/a	
S95T001005	1	Drainable Liquid Recoverd - Wt	q	n/a	n/a	18.00	n/a	n/a	n/a	<u>n/a</u>	n/a	n/a

Table 2. BX-103 Extrusion Summary - Cores 86 and 87. BX-103

CORE NUMBER: 87
SEGMENT #: Field Blank

SEGMENT PORTION: W Whole Segment

. +111 1 411 1 10 1011	THE PARTY OF THE P											
81-#		41-4-	11 2.4		D. 1.		B. 1: 5		000 %	0 1 0 4	B.A. Linia	
Sample#	K [A#	Analyte	Unit	Standard %	Blank	Kesuit	Duplicate	Average	KPD %	Spk kec %	vet Limit	Count Err%
S95T001006		Solids Recovered - Weight	g	n/a	n/a	1.00e-02	n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T001006		Organic Vol Present / hotcell	mL	n/a	n/a	0.00e+00	n/a	n/a	n/a	n/a	n/a	n/a
S95T001006		Notebook with source data		n/a	n/a	พ-1173	n/a	n/a	n/a	n/a	n/a	n/a
S95T001006		Liner Liquid Recoverd - Weight	g	n/a	n/a	0.00e+00	n/a	n/a	n/a	n/a	n/a	n/a
S95T001006		Extrusion of a Segment		n/a	n/a	complete	n/a	n/a	n/a	n/a	n/a	n/a
S95T001006		Drainable Liquid Recoverd - Wt	lg	n/a	n/a	280.0	n/a	n/a	n/a	n/a	n/a	n/a

278.03 28 8/30/95

Table 3. BX-103 Analytical Summary - Cores 86 and 87. BX-103

CORE NUMBER: 87 SEGMENT #: 2

SEGMENT PORTION: U Upper Half of Segment

 	ter the terminal										
			I	l i					•		
			1	I I							
			1	1 3							1
		1.4	1	1 - 1			_	4	ام مام		A
Sample#	R A# Analyte	lUnit	IStandard %	l Blanki	Result	Duplicate	Average	RPD %l	Sok Rec %l	Det Limit	Count Err%
Saup Cr	A LANTIALIST C	I Of the C	Juliana w	l prankt	Kesutt	Dupticate	Avelage	171 2 701	OPK NCC /	DCC LIMIC	COMIC EIT
 						55 (5		0.05		4 00 00	
S951001039	% Water by Gravimetric	1%	98.76	l n/a!	23.60	23.40	23.50	0.85	n/a	1.00e-02	l n/al
3771001037	I IN MOLEL DY GLOVINELLIE	/ o	, ,0.,0	"", "	23,00	23.70	LJ.JV	0.07	11,7 4	1.000 02	17 21

ATTACHMENT 1

CHAIN OF CUSTODY FORMS

Pink - Core Sempling, \$6-85

Yallow - Recipient of Sample

BC-6000-309 (02/84)

Goldonrod - Tank Farm Operations, 54-43

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipmont Number SP-95-C	0/7 (2) 51-	ber <u>95-082</u> (3) 8	Supervisor M.C. JONES	
(1) Tank <u>BX-10.3</u>	(5) Riser	77	Core 86 (8) Cask Serial No	umbar <u>C-1049</u>
Rediction Survey Data: Over Tep Dose Rate Side Dose Rate Bettom Dose Rate Smearable Contamination ACT*	(9) FIELD MR/HR MR/HR LMR/HR LMR/HR (Alpha) (Alpha) (Beta-Garrma) WG (Signature)	(33) LABORATORY C. 5MR/MR /0 MR/MR /0 MR/MR /-5 MR/MR /	B. Cook Seal Number C. Sampler Serial Number D. Date and Time Sampler Unseated	ES-95-00199 1710 94-291 5/26/95 10:05 30% 70% 500 MR/HR,
(11) INFORMATION (Include eletement Pract (12) Field Comments		WHC-SD-WM-TP		WHC-SD-WM-DP-
(19) Relinguished By (Sign and PRINT) (21) Relinguished By (Sign and PRINT)	22-5 M1 (20) Roco 20) Roco (24) Roco (24) Roco	er Name (Sign and PRINT) Lived By (Sign and PRINT) Lived By (Sign and PRINT) Attack Lived By (Sign and PRINT)	(16) Date/Time (17) Sender Comm (21) Date/Time (22) Receiver Com (25) Date/Time (26) Receiver Com (29) Date/Time (30) Receiver Com	ments D
(18) Seel Intact Upon Release?	(31) Seal Intest Upon Receipt?		(32) Seel Date Consistent with this Record?	

	(CHAIN-OF-CUS	TODY RECORD FOR	CORE SAMPLING		CUDV
1) Shipment Number 5P	95-018 (2) 5	Sample Number 44	-083 DUN (3)	Supervisor	arthey	- 4011-
4) Tank 241-15X-1	13 (5) Riser _ 2	(6) Sogn		Cora 687	(8) Cask Serial Number	<u>C/034</u>
ladiation Survey Data; Over Top Dose Rate Side Dose Rate Bottom Dose Rate Smearable Contamination RCT' (HPT)	(9) FIELD L, S Wrem/ 12 Mrem/ 10 Mrem/ (Alpha) (Alpha) (Bota-Gamma) (Signatura) mant of laboratory tosts to	acm acm son reti	(33) LABORATORY 20. S MEM PAR 10 MRENTAR 9 MRETO PAR 220 DON 1000 (Alpha) 2100 DON 1000 (Beta-Gamma) MANAGEMENTAR (Gignature)	7 F Evnented limbel Co	mber mber mpler Unsaated 5.3 phtent h Drill String 4.	95-194 1208 4-289 1095, 1406 190 140mv/HR 1911
WHC-90-0	UM-TP-3	39	·			¥.
(12) Field Comments			(34) Laborato	NY Commonte		C-SD-WM-DP-
	1) Destination 2225 INTY	(15) Sender Name IS	or DCHarthey	(18) Oate/Ilme	(17) Sender Comments (22) Receiver Comment	
Officially OC (23) Bollinquiehed By (Sign and PR	Hartley INTI	124) Received By (SK	in and PRINTI NAMERS	(25) Date (Time	(26) Recoiver Comment	a .
(27) Refinquished By (Sign ¹ and Pf	INT)	128) Rypolved By (Sig	in and PRINT) '	(29) Dato/Time	(30) Receiver Comment	
(18) Seal Intact Upon Release?	(31) Seel Intest Upo	on Raceipt?		(32) Soal Date Consistent	with this Resord?	
Voa □No	DYes [Shippiont No. 2 Yes : No	Cask Soal N	a. No	Sampla No.

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

U	NN	V
1	Uľ	

BC-6000-309 (02/94)

) Shipment Number	95-018 (2) S	iampie Number _	96-084	(3) Sup	ervisor M.C.	Jones	<u> </u>
) Tank Bx-/03	(5) Riser2	(6) :	Segment2	(7) Co	ro <u>087</u>	(8) Cask Sorial	Number <u>G-1045</u>
adiation Survey Date: Over Top Dose Rate Side Dose Rate Bottom Dose Rate Smearable Contamination RCT'	(S) Rlear (S) FRELD L, S Mrum 8 Mrum/h, 8 Mrum/h, 20 DPM/(a) (Alpha) L 1000 DPM (Bota-Garrina) David/) occsed	1hr 100 Cm ~	(33) LABORAT 20.5 A 7 4 220 O (Alpha)	ORY MEMBER AIR MEMBER AIR MEMBER AIR MEMBER AIR MORTHUR DIPT / 10 C	110) Shipmant Description A. Work Package Num B. Cask Seel Number C. Sempler Serial Num D. Date and Time Ser Z. E. Expected Liquid Cor F. Expected Solid Cor	nbor nbor npor Unsected ntont	FS-95-0194 1712 94-287 5-30-95/18147 3090 320 MR/HR
(HPT)	(Signature)	(HPT)	(Signature))	G. Dosa Rato Through		1634
11) (NFORMATION (Include atal) 12) Floid Commonta NO Head Fluid Went OFF 163/2"	was used.	Bortom E	Alam	(34) Laboratory (Comments	·	WHC-SD-WN-DP-135, REV
BX-103	4) Doublination 222-S	Marto	Sign and PRINT	Huy	116) Date/Time	(17) Sonder Cor (22) Rossiver Co	
19) Reilinquished By (Sign and PRINT) (20) Rocolved By (Sign and PRINT) (24) Received By (Sign and PRINT) (27) Reilinquished By (Sign and PRINT) (28) Received By (Sign and PRINT)			(Sign and PRINT)	ri and PRINT) (25) Date/Time (28) Receiver Comments			pmmonts
(18) Seel Intact Upon Release			Shigmant No,		32) Soal Data Consistent v Caak-Soal No	o.	Sample No.
Yes No		No	ZY00 DI	Vo	Yes	□ No	ØYos □ No

correction white - office of Samole Management — Yatiow - Recipient of Sample — Pink - Core Sampling, S6-85 — Goldenad - Tank Farm Operations, S4-43

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING



(1) Shipment Number 50	-95-018 (2) Samp	o Number Blank (3) Su	norwson M. C. Jones	UUI_I.
(4) Tank 3x-10 7		(6) Segment Blank (7) Co	oro 087 (B) Caak Sarial Numb	or <u>C-/055</u>
Radiation Survey Data: Over Top Dese Rate Side Oese Rate Bottom Dese Rate Smearable Contamination RCT*	(9) FIELD .5 mrem/hr .5 mrem/hr A5 m.en/hr L20 DPM/100cm (Alpha) L1000 DPM/100cm (Beta-Garma) David Dodson (Signakura)	(33) LABORATORY LO, S. MEMAIR LOOD DOM ADDOCT (Alpha) 2 LIDOD DOM ADDOCT (Signatura) (HPT) (Signatura)	B. Cask Seal Number C. Sampler Serial Number O. Date and Time Sampler Unsacted E. Expected Liquid Content	-95-0194 713 1-290 30-95 / 19:10 00% 0% 0%
(11) INFORMATION (Include at	etement of leboratory tests to be p	orloimed 1		WHC-SD-WN
(12) Field Comments		(34) Laboratory	Commente	M-DP-735, RE
13) Point of Origin 10 3 3 X (19) Relinquished By (Sign and	PRINT) PAINT) PAINT) PAINT) 124	Sandar Nama (Sign and PRINT) Hard State Of Sign and PRINT) Received By (Sign and PRINT)	(21) Date/Time (22) Receiver Commerce (25) Date/Time (26) Receiver Commerce	nte
(27) Railinquished By (Sign and (18) Seal Intact Upon Raises		Recogned By (Sign and PRINT)	(29) Date/Time (30) Receiver Commer (32) Seel Date Consistent with this Record?	ato
Yes No	CD Vac DNo	Shipment No.	Cask Seal No. Lives No 15 Goldentod - Tank Farm Operations, \$4-43	Sample No. Vos No BC-8000-309 (02/94)

ATTACHMENT 2

HOT CELL WORK PLANS

Hot Cell Workplan - Push/Rotary Mode

Tank: <u>f5</u> X-	-103	Core: 86 Segment: Riser: 7
Date: TCP Number Sample Nur Cask Number Logbook Nu PC Name:	mber: er:	05-31-95 WHC-SD-WM-TP-339 45-081 C1035 WHC-N-1173 Kevin Boll Telephone: 373-1629
Α.	Samp	le Receipt and Storage
90	1.	Sample/Cask Receipt (procedure LO-090-101) from Door 10.
ξ(ξ(2.	Make 3 copies of the chain of custody. (Project Coordinator, Hot Cell Workplan, and Logbook).
<u> </u>	3.	Record dose rate thru drill string: Dose rate = $350 \text{ m R/h} \text{ m}$
<u>{</u> (4.	Place cask in short term storage.
SC.	5.	Update the SAMPLER/AUGER LOG-IN SHEET.
8 C	6.	Update the SAMPLER/AUGER LOAD-IN SHEET.
90	7.	Attach chain of custody to the hot cell workplan.
£C	8.	Transfer hotcell workplan to Pre-Extrusion Preparation file.
_ B.	Pre-	Extrusion Preparation
EC -Ro	1.	Prepare folder to consolidate papers for extrusion.
-R	2.	Prepare jars/vials needed for extrusion.
EC.	3.	Project coordinator (PC) shall input sample into labcore.
E, C	4.	PC shall generate labels for cask and liner.
ξc 5C	5.	Attach labels to appropriate cask.
5C	6.	Generate Batch for required segment that includes the following tests: Batch #: <u>950013</u> 68
		a. DLIQVOL1 (Drainable liquid volume) b. DLIQWT01 (Drainable liquid weight) c. EST.G/ML (Estimated Density) d. EXTRUD01 (Extrusion information) e. LLIQWT01 (Liner liquid weight) f. NOTEBOOK (Notebook number) g. SLDVOL01 (Estimated solid volume) h. SLDWT-01 (Solid weight)

		WHC-SD-WM-DP-135, REV. 1
<u>&C</u>	7.	If required by project coordinators, generate a batch that includes the following tests: Batch #: 95001369
		a. ORGVOL01 (Organic Volume)b. FSLDWT01 (Filterable solid weight)
<u>کر</u>	8.	Generate a Worklist that includes the batches previously prepared. a. Worklist number $\frac{1462}{595+000}170$
£C	9.	Attach copy of worklist to the hot cell workplan.
<u> </u>	10.	Transfer hot cell work plan to Cask Receipt and Preparation file.
C.	<u>Cask</u>	Receipt and Preparation.
5 C	1.	Receive cask from sample custodian (LO-090-101).
SC TRO	2.	Perform section 5.6 of LO-161-172, Preparation of 11A-1A Hot Cell and Hood For Cask Disassembly.
TRO	3.	Prepare cask according to section B of procedure LO-160-101.
_TRO	4.	Perform the following: a. Sampler load-in (LO-161-172) b. Liner load-out (if required) c. Homogenized sample load-out (if required) d. Jar load-in (if required).
7R0	5.	Record the date the cask was loaded in on the SAMPLER/AUGER LOAD-IN SHEET.
TRO	6.	Decon cask and prepare for return to tank farms.
TRO	7.	Transfer hot cell work plan to Extrusion file.
D.	Extru	<u>.</u>
RKY	1.	Prepare logbook for extrusion. a. Update table of contents b. Chain of custody in place

<u>TKo</u> 2. Pre-weigh all jars for the extrusion/subsampling operation.

4. Prepare the start of the video tape by recording a label of the tank, segment, and date:

a. Tape Number $\frac{\#8}{}$ Title $\underline{BX-FARM}$

 $\underline{\mathcal{T}\mathcal{KO}}$ 5. Contact PC and inform of extrusion.

_7Ro	6.	Contact Building Shift Manager for Waste Tank Volume information (Tank 101). a. Shift manager contacted Gleww WAlly b. Date/Time 08:00 5-31-95
-JR0	7.	Record hot cell temperature and humidity
		a. Temperature 78.3° F Humidity 316
_TRO	8.	Balance check with 20 and 500 gram weights:
		a. 20 gm = 20.00 gms 500 gm = 495.98 gms
_7RO	9.	Obtain initial weight of liner liquid jar before collecting the liner liquid. Complete the information below after collecting liner liquid.
		a. Is liner liquid present? YES or NO b. Jar/vial number: c. Jar/vial size: d. Final wt of liner liquid jar e. Initial wt of liner liquid jar f. Net wt of liner liquid jar 7173 90 mLs 26.03 grams grams 7.30 grams 7.73 grams
		g. Record physical characteristics:
		clear - yellow No solios, AQUEOUS (lear - yellow No solios, AQUEOUS VIAL 7173 C 3mls of UQUID
		(<3m/s of
TRO	10.	Verify the sampler serial # is the same as listed on the chain of custody.
		Sampler serial #: <u>94-</u> 294
TRO	11.	Extrude sample according the appropriate section (push mode or rotary mode) in procedure LO-160-103.
		a. Document the following information:
		(1) Valve OPEN or CLOSED before cutting cables. (a) Time: 12:53
		(2) Valve OPEN or CLOSED after cutting cables.
		(a) Time: <u>/2:59</u>
7720	12.	Document the date and time the sampler valve opened:
-		a. Date: <u>05-31-95</u> b. Time: <u>/3:06</u>

Document the following information during the extrusion. 13. Document time the video and hassleblad photographs are obtained in steps 13 and 14.

> Description of Drainable Liquids: a. APPROX. 210mls OF DraimBle Liquid, BARK Black IN COLOR

b. Description of Solids:

> Black - RUNNY - GRAINY, VERY WET CONSISTENCY AppRox. 4 inches OF Sclids.

772D Video sample on tray: Time: /3:21 14. TRO 15. Take additional photos if required (Hasselblad camera):

> Inside hot cell photography settings: a.

F-stop is set to 4. (1)

(2) Aperature is set between 11 and 8.

(3) Wind to next available film.

Remove film plate. (4)

(5)Focus camera

Shoot picture

Record the following information:
(1) Frame # 9-10(2) Time taken: 13:25b.

TRO 16. Complete Film Frame Record sheet for each picture taken.

17. Subsample according to instructions outlined in the TCP. - ZRo Follow special instructions given by PC/chemist.

BX103 Gire 86 Seg #1 D.L. Time: /3:3/ a. Sample description:

> Jar/vial number: (1)(2) Jar/vial size mLs (a) Final wt **446.26** grams (b) Initial wt

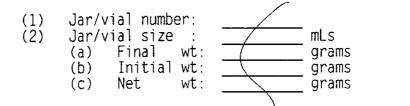
ടട grams Time: /3:32 (c) Net wt:

BX 103 Core 86 Seg #/ Riser #7 (Sc libs) Sample description: Time: <u>13:33</u> b.

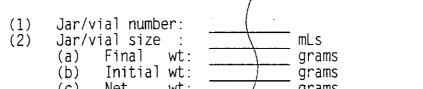
> Jar/vial number: (1)(2) Jar/vial size (a) Final wt:

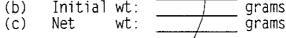
Initial wt: (b) Net wt: (c) grams

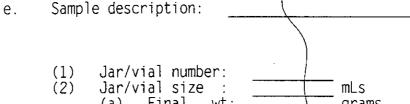
Time: Sample description: С.



d. Sample description:







(a)	Final	wt:	grams
(b)	Initial	wt:	grams
(c)	Net	wt:	grams

Post Extrusion

Time:

Time:

Time:

Time:

Time:

Record total amount of solids and liquid collected in sample 1. jars:

a.	Jar # 6945	Weight	221.71	grams
b.	Jar # <u>6796</u>	Weight	33.91	grams
С.	Jar #	Weight	N/A	grams
d.	Jar # <i>N/p</i>	Weight	N/A	grams

255,62 grams Total Weight: (1)

JR0

2. Update Jar notebook for jars/vials created during extrusion.

TRO

3. Clean up hot cells, extrusion trays, auger, auger sleeve, auger liner and spatulas, etc. Use sqeegee, sponge, and water to clean floor of hot cell.

F. <u>Extrusion report</u>

_TRO

1. Write up extrusion report in appropriate wordperfect file.

a. WP Dir\File: wp DATA WKPlans BX-FARM 8X103 C86. INF

-TRO

2. Send extrusion report (CC:Mail) to appropriate personnel.

G. Labcore

RKY

1. Complete data entry on labcore worklist.

RKY

2. Complete data entry into labcore computer system.

2K7

3. Chemist to review worklist for extrusion.

PKZ

4. Return worklist for extrusion to lableader.

RKZ

5. Update Paradox Database for jar/vials created during extrusion.

H. <u>Laboratory Logbook:</u>

TRO

1. Update laboratory notebook.

I. Homogenization Setup

RK7

1. Worksheet for homogenizations and/or subsampling will be provided by the project coordinator.

NA

2. Setup labcore batches for the tests to be performed. The tests may include the following:

- a. HOMGNZ01 (Homogenization test)
- b. ARCHIVE (Archive)
- c. SUBSMPL1 (Take a subsample)
- d. V%SLD-01 (Volume % solids)
- e. BLKDEN01 (Bulk Density)

- - a. Worklist number __/\lambda_

J. <u>Homogenization and Subsampling</u>

- Perform appropriate test according to the worklist and record information on the worksheet provided. NOTE: A worksheet will be provide for each one of the tests listed in step J.2.
- 2. Follow instructions provided with the homogenization and subsampling worksheet.
- RkF 3. Place picture in appropriate laboratory notebook.

NOTES:

Homogenization and subsampling completed on 6/5/95

Hot Cell Workplan - Push/Rotary Mode

Tank:	BX-103	Core: 86 Segment: 2 Riser: 7
Cask N	Number: Number: ok Number:	$\frac{0.5-31-9.5}{WHC-5D-WM-TP-3.59}$ $\frac{9.5-0.8.2}{9.5-0.8.2}$ $\frac{C.1049}{WHC-N-11.73}$ $\frac{WHC-N-11.73}{V_0.0.15}$ Telephone: $\frac{37.3-16.29}{3.73-16.29}$
	A. <u>Samp</u>	le Receipt and Storage
<u>}</u>	_ 1.	Sample/Cask Receipt (procedure LO-090-101) from Door 10.
<u>& C</u>	_ 2.	Make 3 copies of the chain of custody. (Project Coordinator, Hot Cell Workplan, and Logbook).
20	<u>.</u> 3.	Record dose rate thru drill string: Dose rate = $\frac{500}{100}$ K/h -
<u>sc</u>	<u></u> 4.	Place cask in short term storage.
<u> </u>	<u> </u>	Update the SAMPLER/AUGER LOG-IN SHEET.
ξ c ξc	6.	Update the SAMPLER/AUGER LOAD-IN SHEET.
<u> </u>	<u> </u>	Attach chain of custody to the hot cell workplan.
_50	8.	Transfer hotcell workplan to Pre-Extrusion Preparation file.
		Extrusion Preparation
<u> </u>	_ 1.	Prepare folder to consolidate papers for extrusion.
TRI	<u>o</u> 2	Prepare jars/vials needed for extrusion.
-5	3 .	Project coordinator (PC) shall input sample into labcore.
5	4.	PC shall generate labels for cask and liner.
5C	5.	Attach labels to appropriate cask.
50	. <u> </u>	Generate Batch for required segment that includes the following tests: Batch #: 99001370
		a. DLIQVOL1 (Drainable liquid volume) b. DLIQWT01 (Drainable liquid weight) c. EST.G/ML (Estimated Density) d. EXTRUD01 (Extrusion information) e. LLIQWT01 (Liner liquid weight) f. NOTEBOOK (Notebook number) g. SLDVOL01 (Estimated solid volume) h. SLDWT-01 (Solid weight)

<u> </u>	7.	If required by project coordinators, generate a batch that
		includes the following tests: Batch #: 9500137/
		a. ORGVOL01 (Organic Volume)b. FSLDWT01 (Filterable solid weight)
<u>{</u> C	8.	Generate a Worklist that includes the batches previously prepared. a. Worklist number $\frac{1463}{5957000171}$ b. Labcore number $\frac{5957000171}{5957000171}$
5C	9.	Attach copy of worklist to the hot cell workplan.
<u>EC</u>	10.	Transfer hot cell work plan to Cask Receipt and Preparation file.
С.	<u>Cask</u>	Receipt and Preparation.
5C	1.	Receive cask from sample custodian (LO-090-101).
_7RO	2.	Perform section 5.6 of LO-161-172, Preparation of 11A-1A Hot Cell and Hood For Cask Disassembly.
TRO	3.	Prepare cask according to section B of procedure LO-160-101.
<u>720</u>	4.	Perform the following: a. Sampler load-in (LO-161-172) b. Liner load-out (if required) c. Homogenized sample load-out (if required) d. Jar load-in (if required).
TRO	5.	Record the date the cask was loaded in on the SAMPLER/AUGER LOAD-IN SHEET.
TRO	6.	Decon cask and prepare for return to tank farms.
7RD	7.	Transfer hot cell work plan to Extrusion file.
D.	Extru	sion
RKZ	1.	Prepare logbook for extrusion. a. Update table of contents b. Chain of custody in place
7R0	2.	Pre-weigh all jars for the extrusion/subsampling operation.
TRO	3.	Check video equipment and ensure battery is charged.
TRO	4.	Prepare the start of the video tape by recording a label of the tank, segment, and date:
		a. Tape Number 8 Title BX-FARM
TRO	5.	Contact PC and inform of extrusion.

<u>7R</u> 0	6.	Contact Building Shift Manager for Waste Tank Volume information (Tank 101). a. Shift manager contacted Gless WAlly b. Date/Time
TRO	7.	Record hot cell temperature and humidity
		a. Temperature 78.1° F Humidity 30%
TRO	8.	Balance check with 20 and 500 gram weights:
		a. 20 gm = 19.99 gms 500 gm = 499.98 gms
TRO	9.	Obtain initial weight of liner liquid jar before collecting the liner liquid. Complete the information below after collecting liner liquid.
		a. Is liner liquid present? YES or NO b. Jar/vial number: c. Jar/vial size: d. Final wt of liner liquid jar e. Initial wt of liner liquid jar f. Net wt of liner liquid jar
		g. Record physical characteristics: CleAR - yellow, NO ORGANICS DiscHRDED VIAL 7179 ZIMLS OF SAM
TRO	10.	Verify the sampler serial # is the same as listed on the chain of custody.
5		Sampler serial #: <u>94-</u> 291
アズロ	11.	Extrude sample according the appropriate section (push mode or rotary mode) in procedure LO-160-103.
		a. Document the following information:
		(1) Valve OPEN or CLOSED before cutting cables. (a) Time: 1412
		(2) Valve OPEN or CLOSED after cutting cables.
		(a) Time: <u>14:36</u>
TRO	12.	Document the date and time the sampler valve opened:
		a. Date: <u>05-3/-</u> 95 b. Time: <u>14:45</u>

_TRO	13.	Docum	ent the following information during the extrusion. ent time the video and hassleblad photographs are ned in steps 13 and 14.
		a.	Description of Drainable Liquids:
			Black Thick - Slurgy .
		b.	Description of Solids:
RomavED RemainingEAD SAMPLE INVALVE HEAD SAMPLE SPATULA.	BLACK	rerior	WET - GrAINY TEXTURE, During SUBSAMPLINE OBSERVED THAT OF SAMPLE WAS A WHITE CHAIKY MATERIAL.
SAMPLE SPATVIA	APPI	60X,	14 inches of Solids Extruded.
W 17	L	OWER	9 inches WERE TAKEN AS LOWER HALF OF SEGMENT.
TRO		pper 15 No	5 ENCLOS WERE TAKEN AS UPPER HALF OF SEGMENT. T ABLE TO PUSH PISTON THROUGH THE VALUE HEAD. sample on tray: Time: 14:51
TRO	15.	Take	additional photos if required (Hasselblad camera):
		ā.	<pre>Inside hot cell photography settings: (1) F-stop is set to 4. (2) Aperature is set between 11 and 8. (3) Wind to next available film. (4) Remove film plate. (5) Focus camera (6) Shoot picture</pre>
		b.	Record the following information: (1) Frame # //-/2 (2) Time taken: 14:35
TRO	16.	Compl	ete Film Frame Record sheet for each picture taken.
TRO	17.		mple according to instructions outlined in the TCP. w special instructions given by PC/chemist.
Time: <u>/57</u>	<u>0</u> 0	a.	Sample description: Bx 103 Core 86 Seg #2 Riser #7
T:	20	·	(1) Jar/vial number: # 7138 (2) Jar/vial size : 250 mLs (a) Final wt : 418.76 grams (b) Initial wt : 222.62 grams

30

wt :

Net

(c)

Time: <u>15:2</u>2

418.16 grams 222.62 grams 195.54 grams

Time: <u>151</u> 23	b.	Sample	e description: Bx 103 Core 86 Seg #2 Riser 7 U.H
Time: <u>/5;</u> 29		(1) (2)	Jar/vial number: #6797 Jar/vial size: 125 mLs (a) Final wt: 216.33 grams (b) Initial wt: 129.65 grams (c) Net wt: 86.68 grams
Time: <u>/5:3</u> 0	С.	Sampl	e description: Bx 103 Gre 86 Seg #2 Riser 7 DRAIMART D.L.
Time: <u>/573</u> 5		(1) (2)	Jar/vial number: $\frac{\#}{6947}$ Jar/vial size : $\frac{250}{250}$ mLs (a) Final wt: $\frac{245.71}{224.32}$ grams (b) Initial wt: $\frac{224.32}{21.39}$ grams (c) Net wt: $\frac{21.39}{21.39}$ grams
Time: WA	d.	Sampl	e description: ~/A
Time:		(1) (2)	Jar/vial number: Jar/vial size : mLs (a) Final wt: grams (b) Initial wt: grams (c) Net wt: grams
Time:	e.	Sampl	e description:
Time:/		(1) (2)	Jar/vial number: Jar/vial size : mLs (a) Final wt: grams (b) Initial wt: grams (c) Net wt: grams
E. <u>Post</u>	<u>Extrus</u>	ion	
TRO 1.	Recor jars:		l amount of solids and liquid collected in sample
	a. b. c. d.	Jar # Jar # Jar # Jar #	6797 Weight 86,68 grams 6947 Weight 21,39 grams

(1) Total Weight:

303.61 grams

7Ro 2. Update Jar notebook for jars/vials created during extrusion.

3. Clean up hot cells, extrusion trays, auger, auger sleeve, auger liner and spatulas, etc. Use sqeegee, sponge, and water to clean floor of hot cell.

F. Extrusion report

1. Write up extrusion report in appropriate wordperfect file.

a. WP Dir\File: WPDATA WKPlANS \$x FARM BX103C86, INF

7RO 2. Send extrusion report (CC:Mail) to appropriate personnel.

G. Labcore

RFF 1. Complete data entry on labcore worklist.

PKT 2. Complete data entry into labcore computer system.

 \mathbb{R}/\mathcal{F} 3. Chemist to review worklist for extrusion.

 \mathbb{R} 4. Return worklist for extrusion to lableader.

<u>KKY</u> 5. Update Paradox Database for jar/vials created during extrusion.

H. <u>Laboratory Logbook:</u>

I. <u>Homogenization Setup</u>

1. Worksheet for homogenizations and/or subsampling will be provided by the project coordinator.

2. Setup labcore batches for the tests to be performed. The tests may include the following:

- a. HOMGNZ01 (Homogenization test)
- b. ARCHIVE (Archive)
- c. SUBSMPL1 (Take a subsample)
- d. V%SLD-01 (Volume % solids)
- e. BLKDEN01 (Bulk Density)

NA

- 3. Generate the worklist for the test to be performed.
 - a. Worklist number N

J. Homogenization and Subsampling

ABC

1. Perform appropriate test according to the worklist and record information on the worksheet provided. NOTE: A worksheet will be provide for each one of the tests listed in step J.2.

ABC

2. Follow instructions provided with the homogenization and subsampling worksheet.

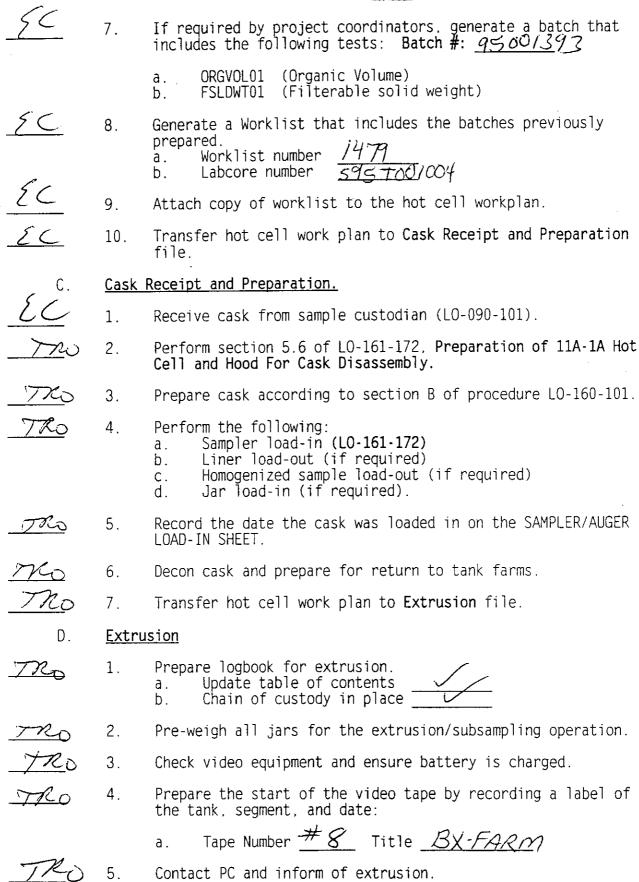
ABE

3. Place picture in appropriate laboratory notebook.

NOTES:

Hot Cell Workplan - Push/Rotary Mode

Tank:	BX-103	Core: 87 Segment: Riser: 2
Cask N	Number: umber: k Number:	06-05-95 WHC-50-WM-18-339 95-083 C 1034 WHC-N-1173 Kevin Dell Telephone: 373-1629
	A. <u>Sam</u> r	ole Receipt and Storage
<u>{</u> { (_ 1.	Sample/Cask Receipt (procedure LO-090-101) from Door 10.
50	_ 2.	Make 3 copies of the chain of custody. (Project Coordinator, Hot Cell Workplan, and Logbook).
<u>{</u> (3.	Record dose rate thru drill string: Dose rate = 440 mg/h
<u> </u>	4.	Place cask in short term storage.
90	<u>.</u> 5.	Update the SAMPLER/AUGER LOG-IN SHEET.
£ C	<u> </u>	Update the SAMPLER/AUGER LOAD-IN SHEET.
80	7.	Attach chain of custody to the hot cell workplan.
EC	_ 8.	Transfer hotcell workplan to Pre-Extrusion Preparation file.
I	B. <u>Pre</u>	Extrusion Preparation
<u>E(</u>	1.	Prepare folder to consolidate papers for extrusion.
TR.	D 2.	Prepare jars/vials needed for extrusion.
<u>ح</u>	_ 3.	Project coordinator (PC) shall input sample into labcore.
£C	4.	PC shall generate labels for cask and liner.
EC 50	_ 5.	Attach labels to appropriate cask.
£C	<u> </u>	Generate Batch for required segment that includes the following tests: Batch # : <u>4500139</u> 0
		a. DLIQVOL1 (Drainable liquid volume) b. DLIQWT01 (Drainable liquid weight) c. EST.G/ML (Estimated Density) d. EXTRUD01 (Extrusion information) e. LLIQWT01 (Liner liquid weight) f. NOTEBOOK (Notebook number) g. SLDVOL01 (Estimated solid volume) h. SLDWT-01 (Solid weight)



PRO	6.	Contact Building Shift Manager for Waste Tank Volume information (Tank 101). a. Shift manager contacted b. Date/Time Clear Wally Clear W
770	7.	Record hot cell temperature and humidity
, 0-		a. Temperature 80,4°F Humidity 20%
720	8.	Balance check with 20 and 500 gram weights:
		a. $20 \text{ gm} = 19.99 \text{ gms}$ 500 gm = 499.98 gms
TRO	9.	Obtain initial weight of liner liquid jar before collecting the liner liquid. Complete the information below after collecting liner liquid.
		a. Is liner liquid present? YES or NO b. Jar/vial number: c. Jar/vial size: d. Final wt of liner liquid jar e. Initial wt of liner liquid jar f. Net wt of liner liquid jar grams grams grams
		g. Record physical characteristics:
TRO	10.	Verify the sampler serial # is the same as listed on the
		chain of custody.
		Sampler serial #: <u>94-</u> 289
ABB	11.	Extrude sample according the appropriate section (push mode or rotary mode) in procedure LO-160-103.
		a. Document the following information:
		(1) Valve OPEN or CLOSED before cutting cables. (a) Time: /3/8
		(2) Valve OPEN or CLOSED after cutting cables.
		(a) Time: <u>/320</u>
ABY	12.	Document the date and time the sampler valve opened:
		a. Date: $\frac{6/5-/55}{5}$ b. Time: $\frac{1522}{1}$

NB 1324	13.	Document the following information during the extrusion. Document time the video and hassleblad photographs are obtained in steps 13 and 14. a. Description of Drainable Liquids:
		Cloudy, Slack liquid collected throughout extrision
		b. Description of Solids :
		collected 1 to 2 inches of shing, Slack, moist sludge with a ga graing texture near Seginning of extrasion.
		Collected an additional 4-5 inches of saute material
		near the end of the extrusion. First portion collected as lower but slute. Second portion collected as upper
218	14.	Video sample on tray: Time: 1325 holf studge.
HB	15.	Take additional photos if required (Hasselblad camera):
		 Inside hot cell photography settings: (1) F-stop is set to 4. (2) Aperature is set between 11 and 8. (3) Wind to next available film. (4) Remove film plate. (5) Focus camera (6) Shoot picture
		b. Record the following information: (1) Frame # <u> </u>
A33	16.	Complete Film Frame Record sheet for each picture taken.
<u> 435</u>	17.	Subsample according to instructions outlined in the TCP. Follow special instructions given by PC/chemist.
Time: <u>13</u>	-	a. Sample description: <u>Drainable Lizuicl</u>
Time: <u>/33</u>	⊋	(1) Jar/vial number: 7140 mLs collated (2) Jar/vial size: $408,490$ mLs collated (a) Final wt: 437.35 grams 1960 log of 1960 grams (b) Initial wt: 322.64 grams 1960 grams (c) Net wt/ 1960 grams 1960 grams 1960

WHC-SD-WM-DP- 135, REV. 1

					AAL	C-2D-AAIAI	·VF 2	110		
Time:	1345	_	b.	Sample	desc	ription:		Lower half	solids	
Time:	<u> 1350</u>			(1) (2)	Jar/v (a)	ial numb ial size Final Initial Net	wt: wt: wt: wt:	130.32 24.54	grams	
Time:	<u>1350</u>		С.	Sample	desc	ription:	_	Upper holi	f silids	
Time:	<u> /355</u>	-			Jar/v (a)	ial numb ial size Final Initial Net	: : wt: wt:	129,64		<i>/</i> ·
Time:			d.	Sample	desc	ription:				
Time:	<u>\</u>			(2)	Jar/v (a) (b) (c)	Initial Net	: : wt: wt: wt:		mLs grams 'grams grams	
Time:			e.	Sample	desc	ription	15/-	ς· ζ		
Time:		/				ial numb ial size Final Initial Net	t : wt:		mLs grams grams grams	
	Ε.	<u>Post</u>	<u>Extrus</u>	<u>ion</u>						
931	2	1.	Record jars:	i total	amou	nt of so	lids	and liquid o	collected i	n sample
	·		a. b. c. d.	Jar# Jar# Jar# Jar#	719 679 70	,9	!	Weight 214 Weight 24 Weight 70	54 grams	5

Total Weight:

(1)

309.15 grams

2. Update Jar notebook for jars/vials created during extrusion.

3. Clean up hot cells, extrusion trays, auger, auger sleeve. auger liner and spatulas, etc. Use sqeegee, sponge, and water to clean floor of hot cell.

F. Extrusion report

AKB

1. Write up extrusion report in appropriate wordperfect file.

WP Dir/File: Chephylum BXPHEN (8x103) BX103C87, IN-

RKY

2. Send extrusion report (CC:Mail) to appropriate personnel.

G. <u>Labcore</u>

RXT

1. Complete data entry on labcore worklist.

RKT

2. Complete data entry into labcore computer system.

RKT

3. Chemist to review worklist for extrusion.

RK7

Return worklist for extrusion to lableader. 4.

RK7

Update Paradox Database for jar/vials created during 5. extrusion.

Η. Laboratory Logbook:

1. Update laboratory notebook.

Ι. Homogenization Setup

WA

1. Worksheet for homogenizations and/or subsampling will be provided by the project coordinator.

2. Setup labcore batches for the tests to be performed. tests may include the following:

- HOMGNZ01 (Homogenization test) a.
- b.
- ARCHIVE (Archive) SUBSMPL1 (Take a subsample) С.
- V%SLD-01 (Volume % solids) d.
- BLKDEN01 (Bulk Density) е.

- $\mathbf{L} = \mathbf{L} \mathbf{A}$ 3. Generate the worklist for the test to be performed.
 - a. Worklist number ∠A

J. Homogenization and Subsampling

- Perform appropriate test according to the worklist and record information on the worksheet provided. NOTE: A worksheet will be provide for each one of the tests listed in step J.2.
- 2. Follow instructions provided with the homogenization and subsampling worksheet.
- 3. Place picture in appropriate laboratory notebook.

NOTES:

Hot Cell Workplan - Push/Rotary Mode

Tank: 🕦	X-103	Core: 87 Segment: 2 Riser: 2
Date: TCP Numbe Sample Nu Cask Numb Logbook N PC Name:	umber: per:	06-05-95 WHC-SN-WM-TP-339 95-084 C1045 WHC-N-1173 Kevin Bell Telephone: 373-1629
C.C.A.	<u>Samp</u>	le Receipt and Storage
7	1.	Sample/Cask Receipt (procedure LO-090-101) from Door 10.
<u>ξ (</u>	2.	Make 3 copies of the chain of custody. (Project Coordinator, Hot Cell Workplan, and Logbook).
<u> 5 C</u>	3.	Record dose rate thru drill string: Dose rate = $\frac{320 \text{ mg/h}}{\text{ mg}}$
8C	4.	Place cask in short term storage.
<u> 50</u>	5.	Update the SAMPLER/AUGER LOG-IN SHEET.
£C EC	6.	Update the SAMPLER/AUGER LOAD-IN SHEET.
<u>EC</u>	7.	Attach chain of custody to the hot cell workplan.
<i>EC</i>	8.	Transfer hotcell workplan to Pre-Extrusion Preparation file.
В.	<u>Pre-</u>	Extrusion Preparation
<u> EC</u>	1.	Prepare folder to consolidate papers for extrusion.
RHZ	2.	Prepare jars/vials needed for extrusion.
<u>80</u>	3.	Project coordinator (PC) shall input sample into labcore.
<u> 22</u>	4.	PC shall generate labels for cask and liner.
<u>EC</u>	5.	Attach labels to appropriate cask.
<u>{</u> (6.	Generate Batch for required segment that includes the following tests: Batch #: 9500139
	·	a. DLIQVOL1 (Drainable liquid volume) b. DLIQWT01 (Drainable liquid weight) c. EST.G/ML (Estimated Density) d. EXTRUD01 (Extrusion information) e. LLIQWT01 (Liner liquid weight) f. NOTEBOOK (Notebook number) g. SLDVOL01 (Estimated solid volume) h. SLDWT-01 (Solid weight)

€C	7.	If required by project coordinators, generate a batch that includes the following tests: Batch #: 95001394
		a. ORGVOL01 (Organic Volume)b. FSLDWT01 (Filterable solid weight)
£(8.	Generate a Worklist that includes the batches previously prepared. a. Worklist number 1480 b. Labcore number 5487005
5 C	9.	Attach copy of worklist to the hot cell workplan.
€ C € C	10.	Transfer hot cell work plan to Cask Receipt and Preparation file.
С.	Cask	Receipt and Preparation.
EC.	1.	Receive cask from sample custodian (LO-090-101).
8C 1933	2.	Perform section 5.6 of LO-161-172, Preparation of 11A-1A Hot Cell and Hood For Cask Disassembly.
ABB	3.	Prepare cask according to section B of procedure LO-160-101.
<u> 4615</u>	4.	Perform the following: a. Sampler load-in (LO-161-172) b. Liner load-out (if required) c. Homogenized sample load-out (if required) d. Jar load-in (if required).
ABB	5.	Record the date the cask was loaded in on the SAMPLER/AUGER LOAD-IN SHEET.
<u> AB1)</u>	6.	Decon cask and prepare for return to tank farms.
ABB	7.	Transfer hot cell work plan to Extrusion file.
D.	Extru	sion
138/	1.	Prepare logbook for extrusion. a. Update table of contents b. Chain of custody in place
<u> 450</u>	2.	Pre-weigh all jars for the extrusion/subsampling operation.
Mys	3.	Check video equipment and ensure battery is charged.
ABB	4.	Prepare the start of the video tape by recording a label of the tank, segment, and date:
		a. Tape Number 8 Title BX FARM
A5/2	5.	Contact PC and inform of extrusion.

<u> </u>	6.	Contact Building Shift Manager for Waste Tank Volume information (Tank 101). a. Shift manager contacted Glew Will b. Date/Time
MUD	7.	Record hot cell temperature and humidity a. Temperature Humidity 25 %
		a. Temperature Humidity 25 %
ABB	8.	Balance check with 20 and 500 gram weights:
		a. 20 gm = <u>19,99</u> gms 500 gm = <u>4459,58</u> Gms
Ann	9.	Obtain initial weight of liner liquid jar before collecting the liner liquid. Complete the information below after collecting liner liquid.
		a. Is liner liquid present? YES or NO b. Jar/vial number: c. Jar/vial size: d. Final wt of liner liquid jar e. Initial wt of liner liquid jar f. Net wt of liner liquid jar grams grams grams
		g. Record physical characteristics: Approximately 5 mer of Liner Liz recovered. Liquid is a dell yellow color med is toubil will sospenled solids.
1911/2	10.	Verify the sampler serial # is the same as listed on the chain of custody.
		Sampler serial #: <u>94-2</u> 87
AUB	11.	Extrude sample according the appropriate section (push mode or rotary mode) in procedure LO-160-103.
		a. Document the following information:
		(1) Valve OPEN or CLOSED before cutting cables. (a) Time: 1473 5
		(2) Valve OPEN or CLOSED after cutting cables.
		(a) Time: <u>/4~30</u>
TRO	12.	Document the date and time the sampler valve opened:
		a. Date: <u>66-05-95</u> b. Time: 100.60595
		b: 1:42

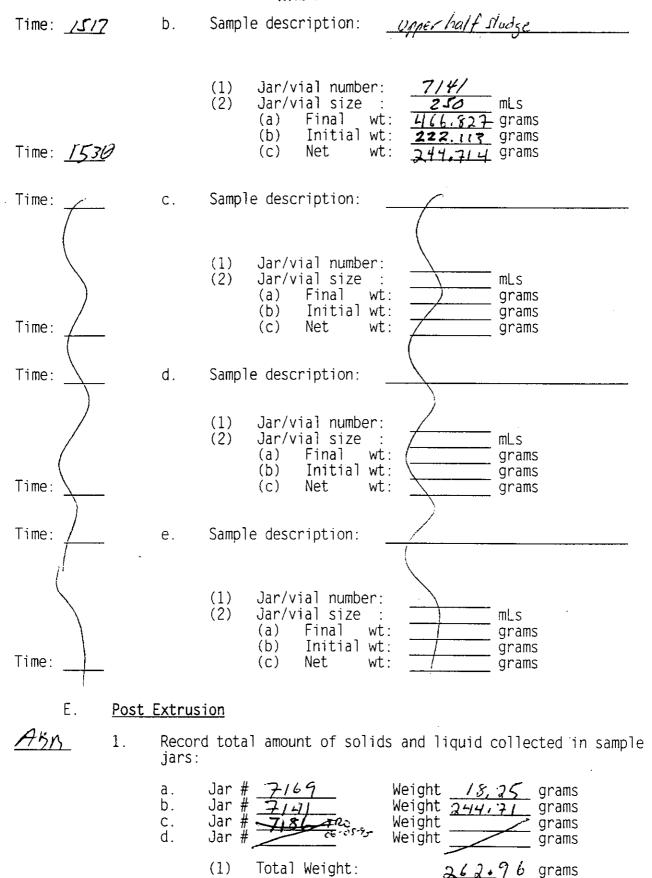
2/13 Document the following information during the extrusion. 13. Document time the video and hassleblad photographs are obtained in steps 13 and 14. Description of **Drainable** Liquids: a. Collected very dark Brown, cloudy liquids 2-3 inches into the extrusion. Sample try war tilled to collect liquids Description of Solids: b. Lost to extracte was 8-9 inches of sludge that retained its shape in the extrusion trag. The solids were very dark brown and swirled with sellow material. Most of the yellow appeared in the modele 5 moher of rample. All solids were collected as the upperhalf of the segment. Yellow material is somewhat crumbly in some areas and bright yellow and with a smooth consistency in other areas.

Video sample on tray: Time: 1450 14. Take additional photos if required (Hasselblad camera): 15. Inside hot cell photography settings: (1)F-stop is set to 4. (2)Aperature is set between 11 and 8. (3)Wind to next available film. Remove film plate. (4)(5)Focus camera Shoot picture Record the following information. b. Frame # $\frac{4 + 5}{1455}$ Time taken: $\frac{1455}{1455}$ (1)(2)16. Complete Film Frame Record sheet for each picture taken. 17. Subsample according to instructions outlined in the TCP. Follow special instructions given by PC/chemist. dramalle lig. Time: バングブ Sample description:

(1) Jar/vial number: 7/69
(2) Jar/vial size : 40 mLs
(a) Final wt : 45 7 43.560 grams
(b) Initial wt : 25.308 grams
(c) Net wt : 18.252 grams

44

Time: <u>1506</u>



Update Jar notebook for jars/vials created during extrusion. 2.

Clean up hot cells, extrusion trays, auger, auger sleeve, auger liner and spatulas, etc. Use squegee, sponge, and 3. water to clean floor of hot cell.

F. Extrusion report

- Write up extrusion report in appropriate wordperfect file.
 - WP Dir/File: CI/WIDATE /WKPlaus/ ByFipm / BX103/ DXO3CFF. 1 ...

2. Send extrusion report (CC:Mail) to appropriate personnel.

G. Labcore

KK7

Complete data entry on labcore worklist. 1.

Complete data entry into labcore computer system. 2.

3. Chemist to review worklist for extrusion.

4. Return worklist for extrusion to lableader.

Update Paradox Database for jar/vials created during 5. extrusion.

Laboratory Logbook: ₋ H.

no

Update laboratory notebook. 1.

Ι. Homogenization Setup

Worksheet for homogenizations and/or subsampling will be provided by the project coordinator.

- Setup labcore batches for the tests to be performed. tests may include the following: 2.
 - HOMGNZ01 (Homogenization test) a.
 - b.
 - ARCHIVE (Archive)
 SUBSMPL1 (Take a subsample) С.
 - V%SLD-01 (Volume % solids) d. BLKDEN01 (Bulk Density) e.

NA

- 3. Generate the worklist for the test to be performed.
 - a. Worklist number <u>NA</u>

R)

Homogenization and Subsampling

- 1. Perform appropriate test according to the worklist and record information on the worksheet provided. NOTE: A worksheet will be provide for each one of the tests listed in step J.2.
- 2. Follow instructions provided with the homogenization and subsampling worksheet.

 \mathbb{RH} 3. Place picture in appropriate laboratory notebook.

NOTES:

WHC-SD-WM-DP-_/35_, REV.__/

Hot Cell Workplan - Push/Rotary Mode

Tank: B	X-103	Core: 87 Segment: Field Hank Riser: 2				
Date: TCP Number: Sample Number: Cask Number: Logbook Number: PC Name:		06-05-95 WHC-SD-WM-TP-339 Field Blank C-1055 WHC-N-1173 Kevin Bell Telephone: 373-1629				
- A.	Samp	le Receipt and Storage				
4	1.	Sample/Cask Receipt (procedure LO-090-101) from Door 10.				
<u>Ec</u>	2.	Make 3 copies of the chain of custody. (Project Coordinator. Hot Cell Workplan, and Logbook).				
<u>{</u> C	3.	Record dose rate thru drill string: Dose rate =				
<u>EC</u> 5 C	4.	Place cask in short term storage.				
<u> 5 C</u>	5.	Update the SAMPLER/AUGER LOG-IN SHEET.				
EC.	6.	Update the SAMPLER/AUGER LOAD-IN SHEET.				
EC_	7.	Attach chain of custody to the hot cell workplan.				
<u>EC</u>	8.	Transfer hotcell workplan to Pre-Extrusion Preparation file.				
В.	Pre-	Extrusion Preparation				
EC.	1.	Prepare folder to consolidate papers for extrusion.				
TRO	2.	Prepare jars/vials needed for extrusion.				
EC	3.	Project coordinator (PC) shall input sample into labcore.				
<u>80</u>	4.	PC shall generate labels for cask and liner.				
<u> </u>	5.	Attach labels to appropriate cask.				
<u> </u>	6.	Generate Batch for required segment that includes the following tests: Batch #: 9500389				
		a. DLIQVOL1 (Drainable liquid volume) b. DLIQWT01 (Drainable liquid weight) c. EST.G/ML (Estimated Density) d. EXTRUD01 (Extrusion information) e. LLIQWT01 (Liner liquid weight) f. NOTEBOOK (Notebook number) g. SLDVOL01 (Estimated solid volume) h. SLDWT-01 (Solid weight)				

<u>4</u> C	7.	If required by project coordinators, generate a batch that includes the following tests: Batch # : 9501392
		a. ORGVOL01 (Organic Volume)b. FSLDWT01 (Filterable solid weight)
<u>{</u>	8.	Generate a Worklist that includes the batches previously prepared. a. Worklist number $\frac{1478}{595700}$
<u>EC</u>	9.	Attach copy of worklist to the hot cell workplan.
<u>EC</u> _ <u> </u>	10.	Transfer hot cell work plan to Cask Receipt and Preparation file.
С.	<u>Cask</u>	Receipt and Preparation.
50	1.	Receive cask from sample custodian (LO-090-101).
ABB	2.	Perform section 5.6 of LO-161-172, Preparation of 11A-1A Hot Cell and Hood For Cask Disassembly.
4BB	3.	Prepare cask according to section B of procedure LO-160-101.
ABB	4.	Perform the following: a. Sampler load-in (LO-161-172) b. Liner load-out (if required) c. Homogenized sample load-out (if required) d. Jar load-in (if required).
17kg	5.	Record the date the cask was loaded in on the SAMPLER/AUGER LOAD-IN SHEET.
ABB	6.	Decon cask and prepare for return to tank farms.
13B	7.	Transfer hot cell work plan to Extrusion file.
D.	Extru	sion
<u>1927</u>	1.	Prepare logbook for extrusion. a. Update table of contents b. Chain of custody in place
TRO	2.	Pre-weigh all jars for the extrusion/subsampling operation.
TRO	3.	Check video equipment and ensure battery is charged.
ABB	4.	Prepare the start of the video tape by recording a label of the tank, segment, and date:
		a. Tape Number 8 Title BX FARM
TRO	5.	Contact PC and inform of extrusion.

<u>— A</u> ns	6.	Contact Building Shift Manager for Waste Tank Volume information (Tank 101). a. Shift manager contacted Grenn Waller b. Date/Time 6/5/55 @ 6970
775	7.	Record hot cell temperature and humidity
		a. Temperature 80.1° Humidity 25%
12	8.	Balance check with 20 and 500 gram weights:
		a. 20 gm = 20.00 gms 500 gm = 499.98 gms
Tho	9.	Obtain initial weight of liner liquid jar before collecting the liner liquid. Complete the information below after collecting liner liquid.
		a. Is liner liquid present? YES or NO b. Jar/vial number: c. Jar/vial size: d. Final wt of liner liquid jar e. Initial wt of liner liquid jar f. Net wt of liner liquid jar grams grams grams
		g. Record physical characteristics:
TRO	10.	Verify the sampler serial # is the same as listed on the chain of custody.
		Sampler serial #: <u>94-2</u> 90
TRO	11.	Extrude sample according the appropriate section (push mode or rotary mode) in procedure LO-160-103.
		a. Document the following information:
		(1) Valve OPEN or CLOSED before cutting cables. (a) Time: _/o: 47
		(2) Valve OPEN or CLOSED after cutting cables.
		(a) Time: <u>/o:53</u>
Mo	12.	Document the date and time the sampler valve opened:
		a. Date: <u>06-05-75</u> b. Time: <u>//:05</u>

TRO	13.		the following information during the extrusion	
······································		Document	time the video and hassleblad photographs are	
		obtained	l in steps 13 and 14.	

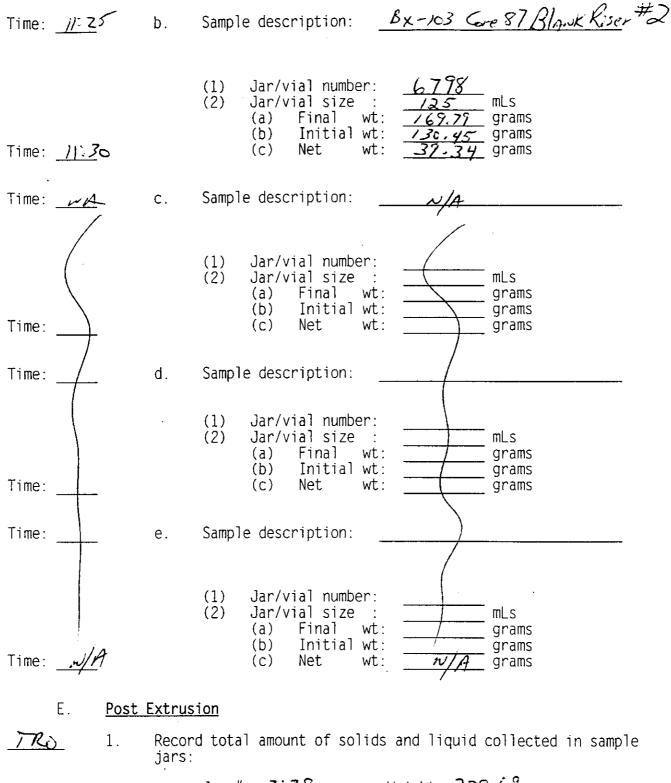
a. Description of Drainable Liquids:

Clear-colorless- LiquiD, NO SOLIDS

b. Description of Solids:

NA

TRO	14.	Video sample on tray: Time: 11:15
TRO	15.	Take additional photos if required (Hasselblad camera):
,		 Inside hot cell photography settings: (1) F-stop is set to 4. (2) Aperature is set between 11 and 8. (3) Wind to next available film. (4) Remove film plate. (5) Focus camera (6) Shoot picture
		b. Record the following information: (1) Frame # #1 (2) Time taken: #1
tro	16.	Complete Film Frame Record sheet for each picture taken.
TRO	17.	Subsample according to instructions outlined in the TCP. Follow special instructions given by PC/chemist.
Time: 11.0	20	a. Sample description: BX-103 Gre 87 Blank Riser#2
Time: //:¿	21	(1) Jar/vial number: 7/39 . (2) Jar/vial size : 250 mLs (a) Final wt: 460.84 grams (b) Initial wt: 222.15 grams (c) Net wt: 233.69 grams



a. b.	Jar # <u>7139</u> Jar # <u>6798</u>	Weight $\frac{238.67}{39.37}$ grams
c. d.	Jar #	Weight grams Weight grams
	(1) Total Weight:	278.03 grams

___ TRO

2. Update Jar notebook for jars/vials created during extrusion.

_JDO

3. Clean up hot cells, extrusion trays, auger, auger sleeve, auger liner and spatulas, etc. Use sqeegee, sponge, and water to clean floor of hot cell.

F. Extrusion report

Ans

1. Write up extrusion report in appropriate wordperfect file.

WP Dir/File: C: Le PONTE LULPING BX FARM BX 183 BX 183 C87, INI

TRO

2. Send extrusion report (CC:Mail) to appropriate personnel.

G. Labcore

RH

1. Complete data entry on labcore worklist.

RKZ

2. Complete data entry into labcore computer system.

RXZ

3. Chemist to review worklist for extrusion.

RKT

4. Return worklist for extrusion to lableader.

RKT

5. Update Paradox Database for jar/vials created during extrusion.

H. <u>Laboratory Logbook:</u>

Tho

1. Update laboratory notebook.

I. <u>Homogenization Setup</u>

PXX

1. Worksheet for homogenizations and/or subsampling will be provided by the project coordinator.

NA

Setup labcore batches for the tests to be performed. The tests may include the following:

- a. HOMGNZ01 (Homogenization test)
- b. ARCHIVE (Archive)
- c. SUBSMPL1 (Take a subsample)d. V%SLD-01 (Volume % solids)
- e. BLKDEN01 (Bulk Density)

-NA

- 3. Generate the worklist for the test to be performed.
 - a. Worklist number _____

J. <u>Homogenization and Subsampling</u>

RH

1. Perform appropriate test according to the worklist and record information on the worksheet provided. NOTE: A worksheet will be provide for each one of the tests listed in step J.2.

R4).

2. Follow instructions provided with the homogenization and subsampling worksheet.

P+

3. Place picture in appropriate laboratory notebook.

NOTES:

ATTACHMENT 3

EXTRUSION REPORTS

BX-103 Core 86 Segment #1 (Riser #7)

Date: May 31, 1995 Sample number: 95-081

Sample number: 95-081 Cask serial #: C1035 Logbook #: WHC-N-1173 Labcore #: S95T000970

Notes:

* Hot Cell Temp 78.3 degrees F. Humidity 31%.

* Check weights: 20 g = 20.00 g, 500 g = 499.98 g
* Dose rate through the drill string was 350 mR/hr.

Expected sample length is 4 inches.

Collected < 5 mL of liner liquid. Did not retain.
 Sampler valve closed before and after cutting cables.

* Extruded sample and performed photography.

Sample information:

* Extruded about 4 inches of solid sample (33.91 grams). Drainable liquid collected was approx. 210 mL. (dark black in color). Solids were black, runny, and grainy with a very wet consistency. Subsampled solids into one jar.

Subsample information:

* Drainable Liquid:

BX-103 Core 86 Segment #1 Drainable Liquid:

-Jar # 6945 (250 mL) -221.71 grams collected

* Subsampled Solids: Sludge material BX-103 Core 86 Segment #1 Solids:

-Jar # **6796** (125 mL) -33.91 grams collected

Notes:

* A total of 33.91 grams of solid sample was collected. The dose rate through the drill string was 350 mR/hr. No problems with sampler valve. Valve was easy to open.

WHC-SD-WM-DP- 135, REV. /

BX-103 Core 86 Segment #2 (Riser #7)

Date:

May 31, 1995

Sample number: Cask serial #: 95-082 C1049

Logbook #: Labcore #:

WHC-N-1173 S95T000971

Notes:

Hot Cell Temp 78.1 degrees F. Humidity 30%.

Check weights: 20 g = 19.99 g; 500 g = 499.98 gDose rate through the drill string was 500 mR/hr.

Expected sample length is 19 inches. Collected < 5 mL of liner liquid. Did not retain. Sampler valve closed before and after cutting cables.

Extruded sample and performed photography.

Sample information:

Extruded about 14 inches of solid sample (86.68 grams of upperhalf solids and 195.54 grams of lower-half solids: total solids = 282.22 grams). Drainable liquid collected approx. 20 mL (21.39) grams). Solids were black-wet-grainy in texture, during subsampling observed that the interior of sample contained a white, chalky material. Lower 9 inches were taken as lower half of segment. Upper 5 inches were taken as upper half of segment. Was not able to push piston through the valve head assembly. Removed remaining sample in valve head with spatula.

Subsample information:

Drainable Liquid:

BX-103 Core 86 Segment #2 Drainable Liquid:

-Jar # 6947 (250 mL) -21.39 grams collected

* Subsampled **Solids**: Lower Half

BX-103 Core 86 Segment #2 Lower Half Solids:

-Jar # **7138** (250 mL) -195.54 grams collected

Subsampled **Solids**: Upper Half

BX-103 Core 86 Segment #2 Upper Half Solids:

-Jar # **6797** (125 mL) -86.68 grams collected

Notes:

A total of 282.82 grams of solid sample was collected. The dose rate through the drill string was 500 mR/hr. Problems with sampler valve: Was not able to push piston through the valve head approx. 2 inches short of coming out of sampler.

WHC-SD-WM-DP-135, REV. 1

BX-103 Core 87 Segment #1 (Riser #2)

Date:

June 05, 1995

Sample number:
Cask serial #:

95-083 C1034

Logbook #: Labcore #:

WHC-N-1173 S95T001004

Notes:

* Hot Cell Temp 80.4 degrees F. Humidity 20%.

* Check weights: 20 g = 19.99 g; 500 g = 499.98 g
* Dose rate through the drill string was 440 mR/hr.

* Expected sample length is 19 inches.* No liner liquid collected or observed.

* Sampler valve closed before and after cutting cables.

* Extruded sample and performed photography.

Sample information:

* Extruded about 7 inches of solid sample (70.10 grams of upper-half solids and 24.54 grams of lower-half solids: total solids collected was 94.64 grams). Drainable liquid collected was approximately 190 mL (214.51 grams), which was turbid and black in color. Solids were shiny black-wet-grainy in texture. During the first part of the extrusion process, observed 2 inches of solids which was collected as the lower half segment. Near the end of the extrusion, collected an additional 5 inches which was collected as the upper half segment.

Subsample information:

* Drainable Liquid:

BX-103 Core 87 Segment #1 Drainable Liquid:

-Jar # **7140** (250 mL) -214.51 grams collected

* Subsampled Solids: Lower Half

BX-103 Core 87 Segment #1 Lower Half Solids:

-Jar # **6799** (125 mL) -24.54 grams collected

* Subsampled Solids: Upper Half

BX-103 Core 87 Segment #1 Upper Half Solids:

-Jar # **7070** (125 mL) -70.10 grams collected

Notes:

* A total of 309.15 grams of solid and liquid sample was collected. The dose rate through the drill string was 440 mR/hr. No problems with sampler valve. Valve was easy to open.

WHC-SD-WM-DP-135, REV. /

BX-103 Core 87 Segment #2 (Riser #2)

Date:

June 05, 1995

Sample number: Cask serial #: 95-084 C-1045

Logbook #: Labcore #:

WHC-N-1173 S95T001005

Notes:

Hot Cell Temp 80.2 degrees F. Humidity 25%. Check weights: 20 g = 19.99 g; 500 g = 499.98 gDose rate through the drill string was 320 mR/hr.

Expected sample length is 16.75 inches.

Collected < 5 mL of liner liquid. Did not retain. Sampler valve closed before and after cutting cables.

Extruded sample and performed photography.

Sample information:

Extruded about 9 inches of solid sample near the end of the extrusion process, which was subsampled as the upper half (244.71 grams of solids collected). Drainable liquid collected approx. 15 mL (18.25 grams), which was turbid and dark brown in color. Solids were very dark brown and swirled with yellow material. Most of the yellow appeared in the middle 5 inches of sample. Yellow material is somewhat crumbly in some areas with a smooth consistency in other areas.

Subsample information:

Drainable Liquid:

BX-103 Core 87 Segment #2 Drainable Liquid: -Jar # 7169 (40 mL)

-18.25 grams collected

Subsampled Solids: Upper Half

BX-103 Core 87 Segment #2 Upper Half Solids:

-Jar # **7141** (250 mL) -244.71 grams collected

Notes:

A total of 262.96 grams of solid and liquid sample was collected. The dose rate through the drill string was 320 mR/hr. No problems with sampler valve. Valve was easy to open.

WHC-SD-WM-DP- 135, REV. 1

BX-103 Core 87 Field Blank (Riser #2)

Date: June 05, 1995 Sample number: Field Blank

Cask serial #: C1055

Logbook #: WHC-N-1173 Labcore #: S95T001006

Notes:

* Hot Cell Temp 80.1 degrees F. Humidity 25%.
* Check weights: 20 g = 20.00 g; 500 g = 499.98 g
* Dose rate through the drill string was 0 mR/hr.

* Expected sample length is 19 inches.* No liner liquid collected or observed.

* Sampler valve closed before and after cutting cables.

* Extruded sample and performed photography.

Sample information:

* Collected approximately 280 mL of clear colorless drainable liquid, no solids observed or collected.

Subsample information:

- * Drainable Liquid: (jar #1)
 BX-103 Core 87 Field Blank
 -Jar # 7139 (250 mL)
 -238.69 grams collected
- * Drainable Liquid: (jar #2)
 BX-103 Core 87 Field Blank
 -Jar # 6798 (125 mL)
 -39.34 grams collected

Notes:

A total of 278.03 grams of drainable liquid was collected. The dose rate through the drill string was 0 mR/hr. No problems with sampler valve. Valve was easy to open.

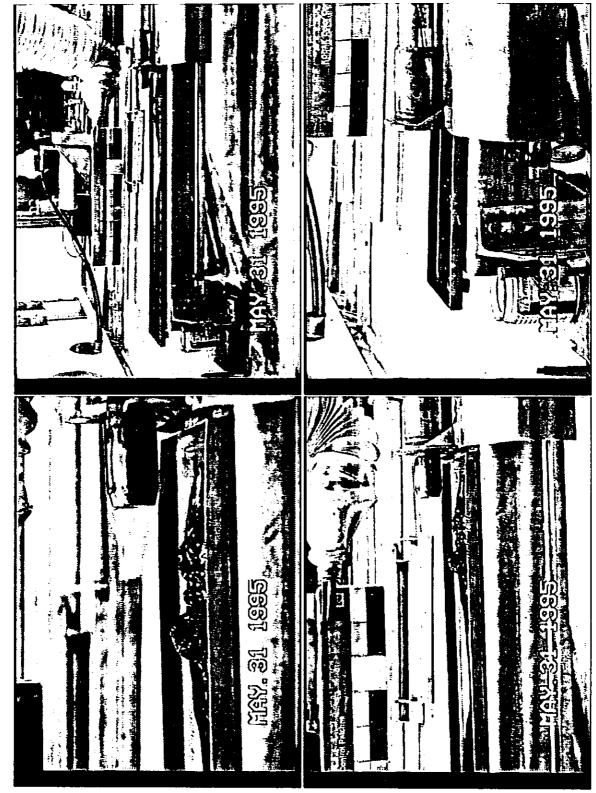
WHC-SD-WM-DP-135, REV. 1

ATTACHMENT 4

PHOTOGRAPHS

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8x-103 Core 86 Seg



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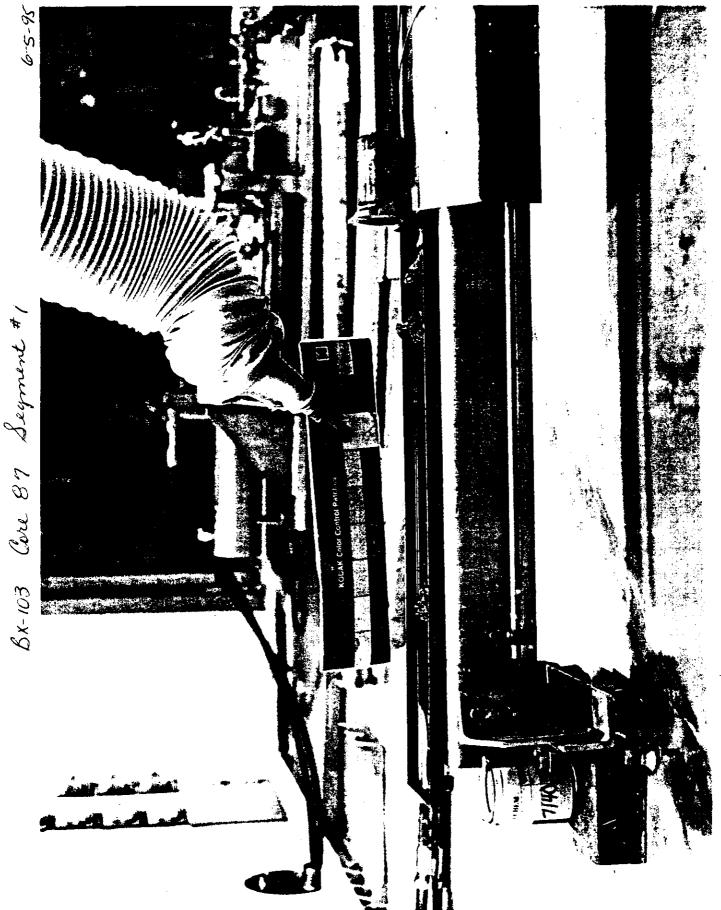
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BX-103 Core 86 Seg #2





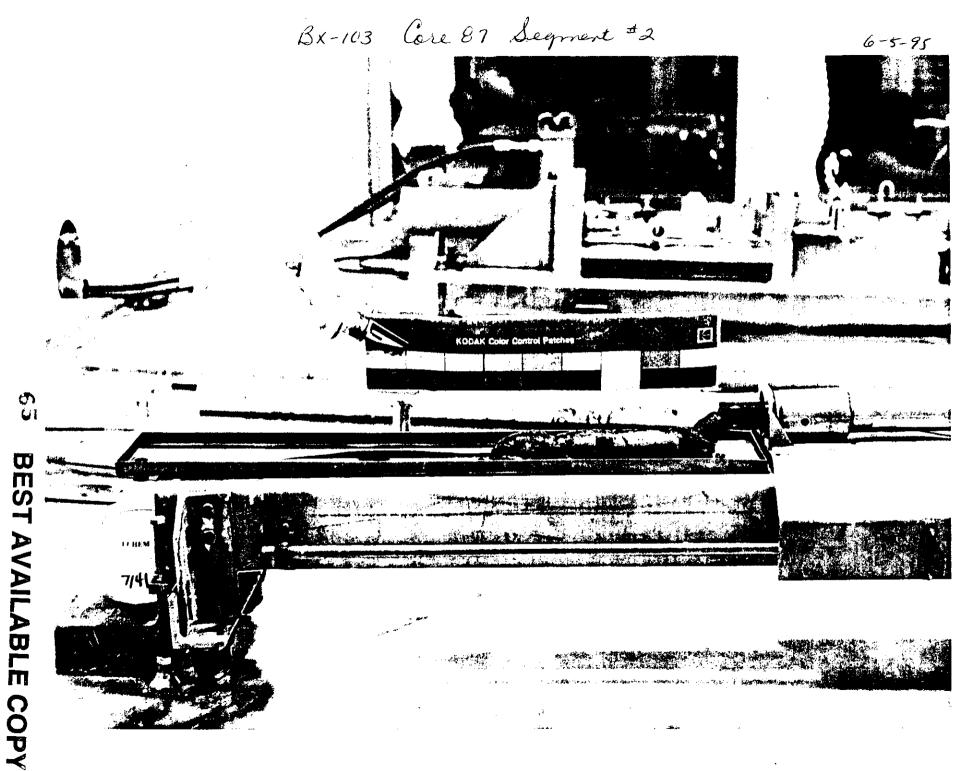
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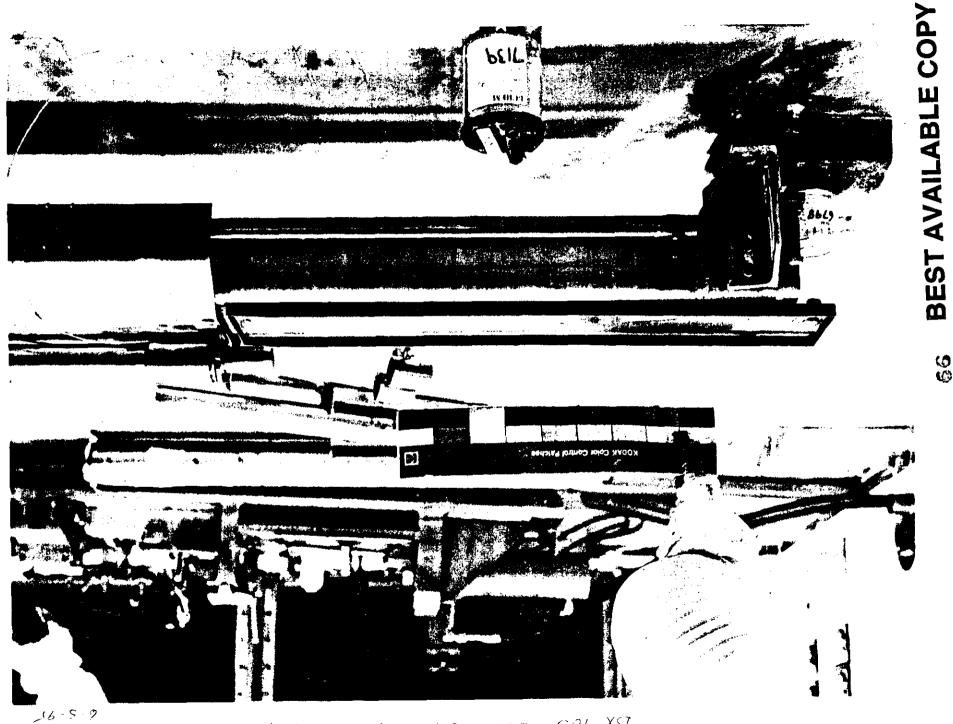
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BX 103 CERE 87 FIELD BLANK

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WHC-SD-WM-DP-135, REV. 1

ATTACHMENT 5

SUBSAMPLING WORKSHEETS

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Date: 1/5/76 Subsample Worksheet

	•		
Tank: <u>BX-103</u> Core	e: 86 Segmen	t: <u>/</u> Riser:_	7
Homogenization Time (Min.): n/a		Jar#: 6945 Jar/Vial size: 250 Initial weight: 445.96 Final Weight: 371.54 Net Weight: 74.42	g
Start time: Finish time:	Start time: Finish time:	Start time: Finish time:	Start time: Finish time:
Continue of the desired of the stands	Cas, 100 10	, î	
Jar#: 70.54 6997 Jar/Vial size: 20 mL	need 50-60g Jar#: 7183 Jar/Vial size: 40 mL	Jar#: 1978 Jar/Vial size. mL	Jar#:
Initial weight: 28.0938	Initial weight: 25.18 g	Initial weight: g	Initial weight: g
Final Weight: 37.733 g Net Weight: 9.64 g	Final Weight: 72.52 B Net Weight: 4734 B	Final Weight:g Net Weight:g	·
Special Instructions:	Cartrilige appear. 10	ml and decant liquid in	to zound Vial. Discord
contriduced solids.		/ 0.A	
V		Conplex	6/5/95

Date: 6/5/55

	Tank: <u>BX-103</u> Cor Homogenization Time (Min.): <u>10 min</u>	e: <u>86</u>	Segmen	t: _/ F Jar#:6945 Jar/Vial size:_ Initial weight: Final Weight:_ Net Weight:_	Riser: 7 (lig.) 250 mL 445.96 g 371.54 g 74.42 g		WHC-SD-WM-DP-
69	Start time: Finish time: Auto 15 15 16 2 Jestwied AB 6.	Start time: Finish time: jar 7054 /5/95 need	50-60 7	Start time: Finish time:	18	Start time: Finish time:	S, REV.
(A)	Jar#: 7054 Jar/Vial size: 20 mL Initial weight: 27.338 Final Weight: 43.108 Net Weight: 43.108 IS.77 Special Instructions:	Jar#:	1/83 :: 40 mL	Jar#: Jar/Vial size: Initial weight: Final Weight: Net Weight:		Jar#:	

Complete 15/45

Bulk Density Worksheet

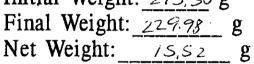
Date:	6/5/95
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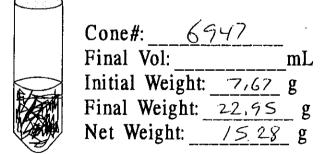
Tank:_	BX-103	•	
Core:	86		
Seg: _	2	RISER	#7
Auger:	NA	RISPE	

	Start Time:	NA
	End Time:	MA
حـــــــــــ	1	
	Uomocenia	ration

Homo	genization
Time	(Min.): <u>NA</u>

Jar#:	69	147	
Jar/Via	l Size:	こらひ	mL
Initial	Weight:	245,5	⊵ g

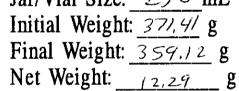


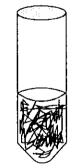


Appearance/Narrative:	a
- odd approx. 10 m/s	of songe. Four
or desort supernote	interview DSS,
Completo unlabert.	
/= -	

Tank:_	<u>/3X/0</u> 3	
Core:_	86	
Seg: _	1	
Auger:	NA	#

	Start Time: MA End Time: MI
	Homogenization Time (Min.):
_AA	Jar#: 6 945
	Jar/Vial Size: 250 n





Cone#:	6945	
Final Vol:		mL
Initial Weigh	1t: 7.68	g
Final Weight	t: 19.81	g
Net Weight:	12,13	g

Appearance		itive:	to	this	cone	a2
	-	Decont				
(VIAL),			· · · · · · · · · · · · · · · · · · ·		 	
	and	ete D. Hilo	- 10	<u>.</u>		

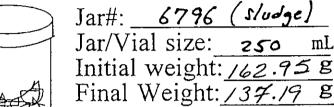
WHC-SD-WM-DP-135, REV.

Date:	6/5/95

Riser: 7 Segment: / Tank: **BY-103** Core: 86

Homogenization

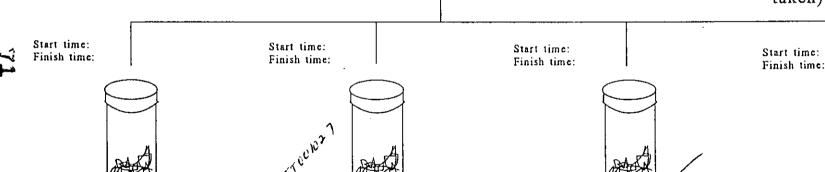
Time (Min.): 10 min



Net Weight: 25.768

(after final subsample

taken)



archive remainder

Jar#: 7052 Jar/Vial size: ___ zo mL Initial weight: 26.888 Final Weight: 33. 478

need 7-8 g

Net Weight: 6.79 g

Jar#: 7181 Jar/Vial size: 40 mL Initial weight: 25.078 Final Weight: 41,668

Net Weight: /6,59g

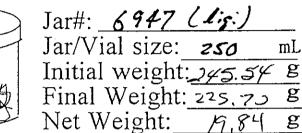
Jar#: Jar/Vial size: Initial weight: Final Weight: _ Net Weight:

Jar#: Jar/Vial size: mLg Initial weight: Final Weight: Net Weight:

Special Instructions: Jap # 6796 was used in process

mL

Homogenization Time (Min.): <u>n/a</u>

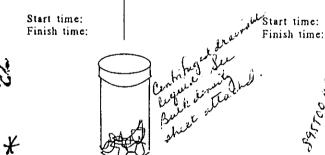


Start time:

(after final subsample taken)

Start time:

Finish time: -



Jar#: 7055

Jar/Vial size: zo mL

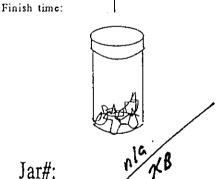
Initial weight: 27.318 Final Weight: 37.36 g

Net Weight: 10.05 8



Archive remainder

<u>_7</u>184 Jar#: Jar/Vial size: 10 mL Initial weight: 25.098 Final Weight: 28,698 Net Weight: 3.60g



Jar#: Jar/Vial size: mLInitial weight: Final Weight: Net Weight:

Jar#:	Vla MB
Jar/Vial size	mL
Initial weigh	ht: g
Final Weigh	
Net Weight	g

Special Instructions: Collect 10 mL in a centrifuge tube and centrifuge. Decant liquor into

20 ml vial being careful not to transfer centrifuged solids. Discard solids.

Complete polhe c/c/a-

Date: 6/5/95

	Tank: RX-10 Homogenizat Time (Min.):	tion .	e: <u>86</u>	Segmen	Jar#: 6 Jar/Vial s Initial we Final We	(797 (4) size: <u>2</u> eight: <u>2/</u>	250 mL 5.72 g 0,40 g	(after final taken)	whc-sp-wm-pp-
	Start time: Finish time:		Start time: Finish time:		Start time: Finish time:			Start time: Finish time:	Į į
73				Archiv.	2.				
	collect 7-8 g		collect 50	-60 3	-	16/0	•		19/18
	Jar#: <u>705</u>	· · · · · · · · · · · · · · · · · · ·		182	Jar#:	ME XB		Jar#:	770
	Jar/Vial size:		Jar/Vial size		Jar/Vial	/	mL ~	Jar/Vial siz	
	Initial weight=25		Initial weigh		Initial v		g g	Initial weight	
	Final Weight: 36	-	Final Weigh		Final W		<u>g</u>	Final Weig	
	Net Weight:	1,3/ g	Net Weight:	64,80g	Net We	ight:	g	Net Weigh	t: <u> </u>
	Special Instr	ructions:							· · · · · · · · · · · · · · · · · · ·

Complete RD. Hole 6/5/95

Date: 6/5/95

	Tank: BX-103 Cor	e: <u>86</u>	Segment	t:_2	_ Riser:_	7		
	Homogenization Time (Min.): 5mw.			Jar/Vial si Initial wei Final Weig	38 (LH 301 ze: 250 ght: 4/7.26 ght: 348.38 nt: 68.88	mL g g		whc-sp-wm-de-
74	Start time: Finish time:	Start time: Finish time:		Start time: Finish time:		Start time: Finish time		135, REV.
₩.	collect 7-89	Collect S						
	Jar#: 7056 Jar/Vial size: 20 mL	Jar#:	7/85 C: 40 mL	Jar#: Jar/Vial			/ial size:	mL g
	Initial weight: 37.078 Final Weight: 35.47 8 Net Weight: 8.40 8	Final Weigh	nt: 25.2/8 nt: 81,16 g 55,95 g	Final We Final We Net Weig	ight: g ight: g tht: g	Fina Net	al weight: I Weight: Weight:	g g g
	Special Instructions:			,		· · · · · · · · · · · · · · · · · · ·		·

Complete RS.Hele

Date: 6/7/95

Tank: <u>BX-103</u> Cor	e: 87 Segmen	t: <u>/</u> Riser:	2
Homogenization Time (Min.): 1/4		<u> </u>	
Start time: Finish time:	Start time: Finish time:	Start time: Finish time:	Start time: Finish time:
3	collect 40-50 g for archic		
Jar#: 7059		711/10	Yorth Na NB
Jar/Vial size: 20 mL	Jar#: <u>7/93</u> Jar/Vial size: 40 mL	Jar#: 10 mL	Jar#:
Initial weight 26.99 g	Initial weight: 25,538	Initial weight: g	Initial weight: g
Final Weight: 42.35g	Final Weight: 74.678	Final Weight: g	Final Weight: g
Net Weight: 15.36g	Net Weight: 49.14 g	Net Weight: g	Net Weight: g
Special Instructions:	£7140	fliquid and decant into	7059
centrifused so	lids. Less than	.5 ml of Solids (3	370 Sold

Tank: <u>BK-103</u>

Tank: 84-103 Core: 87 Seg: 2 Auger: 2
Homogenization Time (Min.): Jar#: 7169 Jar/Vial Size: 40 mL Initial Weight: 43.52 g Final Weight: g Net Weight:
Net Weight:g Cone#:7/69 Final Vol:/5mL Initial Weight:g Final Weight:g Net Weight:g
Appearance/Narrative: 15 ml of liquid sample was Taken From 40 ml vial to 15 ml Cone For Centerituse.

Core:_	87
Seg: _ Auger:	
Auger:	
	Start Time: 11 AM End Time: Homogenization
_	Time (Min.):
	Jar#: 7140 Jar/Vial Size: 250 mL Initial Weight: 437.01 g Final Weight: g Net Weight: g
Y	
	Cone#: 7140 Final Vol: /5 mL Initial Weight: 7.75 g Final Weight: g Net Weight: g
Appeara	ance/Narrative:

VOLUME of Solids = 60.5ml an

L. Than a half ML R. H 6/7/95

Date: Segment: / Riser: 2 Tank: **BX-103** Core: **87** Jar#: 7070 (UH. sludge) Homogenization Jar/Vial size: 125 ml used in process Time (Min.): 5 min Initial weight: 199,61 Final Weight: 135,02 g Net Weight: 44,59 g (after final subsample taken) Start time: Start time: Start time: Start time: Finish time: Finish time: Finish time: Finish time: collect 7-89 archive remainder Jar#: 7061 Jar#: Jar#: Jar#: Jar/Vial size: zo ml Jar/Vial size: Jar/Vial size: Jar/Vial size mLmLInitial weight: 27.23 g Initial weight: Initial weight: Initial weight: 25.21 g Final Weight: Final Weight: 36.078 Final Weight: 76.558 Final Weight: Net Weight: 8,848 Net Weight: Net Weight: 51.348 Net Weight: Special Instructions: 7070 Has a Consideren of Shory

Date: Tank: 8x-103 Core: 87 Segment: 1 Riser: 2 Jar#: <u>(799 (LH rlodge)</u> Sample is like Jar/Vial size: 125 mL use in Process)

Final Weight: 154,7798 Homogenization Time (Min.): 5 min Final Weight: 134.63 g Net Weight: 20.149 8 (after final subsample taken) Start time: Start time: Start time: Start time: Finish time: Finish time: Finish time: Finish time: collect 7-89 archive remainder Jar#: Jar#: Jar#: Jar#: Jar/Vial size: 46 mL Jar/Vial size: 20 mL Jar/Vial size: Jar/Vial size mL Initial weight: 27,2198 Initial weight: 25.208 Initial weight: Initial weight: Final Weight: 34.49 g Final Weight: 32.438 Final Weight: Final Weight: Net Weight: 7.238 Net Weight: 7.278 Net Weight: Net Weight: Special Instructions: *6.790

Date: 6/7/95

Tank: <u>8x-103</u> Core: <u>87</u>			
Homogenization Time (Min.):	J I I	Tar#: 7169 Used Tar/Vial size: 40 Initial weight: 43.52 Final Weight: 26.56 Net Weight: 16,96	<u>mL</u> <u>g</u> ≨
Start time: Start time: Finish time: Finish time		Start time: Finish time:	Start time: Finish time:
RH 6/2/25 V archiv	remainder		Finish time:
Jar#: <u>756</u> 7058 Jar#:	7/69	Jar#: 1/8	Jar#: mL
Initial weight: 27.158 Initial Final Weight: 43.468 Final	ial size: <u>#o mL</u> weight: <u>g</u> Weight: <u>g</u> Veight: <u>g</u>	Jar/Vial size:mLInitial weight:gFinal Weight:gNet Weight:g	Jar/Vial size:
/	73	lecour into 20 ml vial.	Titel Weight.
	tuged solids les	ss than .5 ml	of Solida (3% Solida)

Date: 6/7/95

Tank: <u>8x-103</u> C	Core: <u>87</u> Segn	nent: 2 4.4. Ri	ser: <u>2</u>		
Homogenization Time (Min.):		Jar#: 7/4/ Jar/Vial size: 2 Initial weight: 4 Final Weight: 3 Net Weight: 6	13,53 g 72,91 g	(after final subsample taken)	WHC-SD-WM-DP-
Start time: Finish time:	Start time: Finish time:	Start time: Finish time:		tart time:	777
collect 7-Pg	TOOlos9 archive 50-60 e		.16/		V
Jar#: 7060	Jar#: <u>7/94</u>	Jar#:	168	Jar#:	
Jar/Vial size: <u>romL</u> Initial weight 27,518		mL Jar/Vial size:	mL g	bull little biby.	$\frac{\mathrm{nL}}{\mathbf{\varphi}}$
Final Weight: 37.908			g g	Initial weight:	g g
Net Weight: 10.39g		, , , , , , , , , , , , , , , , , , , ,	g		g
Special Instruction	ns:				
					

Date: 6/1/95

Tank: <u>BX-103</u> Con	re: <u>87</u> Se	gmen	t: <i>field Slanl</i> c Ri	.ser: _ <i>2</i>		
Homogenization Time (Min.):	iq		Jar#: 6756() Jar/Vial size: Initial weight: Final Weight: Net Weight:	125 ml 69,468 30.758	· ·	WHC-SI
Start time: Finish time:	Start time: Finish time:		Start time: Finish time:		Start time: Finish time:	
32						
Caller 30-40 7	Ton#. M19		Υ μ.	nls	Y	a NB
Jar#: 7/9/ Jar/Vial size: 40 mL	Jar#: Jar/Vial size:	mL	Jar#: Jar/Vial size:	mL	Jar#: Jar/Vial size:	mL
Initial weight: 45,4728	Initial weight:	g	Initial weight:	g	Initial weight:	g
Final Weight: 83.498	Final Weight:	g	Final Weight:	<u>g</u>	Final Weight:	g
Net Weight: 38.02 g	Wet Weight:	g	Net Weight:	g	Net Weight:	g
Special Instructions:	,	used	in process	-(67.95))"	

WHC-SD-WM-DP-135, REV. 1

ATTACHMENT 6

LABCORE SAMPLE NUMBERS AND TESTS

222-S Analytical Laboratory

P.O. BOX 1970 T6-06, Richland, WA 99352 PHONE: (509) 373-4225/FAX: (509) 373-0545

WHC-SD-WM-DF 135, REV.

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Tank Characterization Program

PO Box 1970

Richland, WA 99352 Attn: Dave Bratzel Customer Code: TCP

Group#: 95000080 Project#: BX-103 Proj Mgr: KEVIN BELL Phone: 373-1629

The following samples were received from you on 05/26/95. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using 222-S Analytical Laboratory.

Sample#	Sample Id Tests Scheduled	Matrix	Sample Date
S95T001012	BX103 SEG1 LIN-LIQ V7173 HOLDPJC	Liquid, or handle as liquid	06/05/95
S95T001013	BX103 SEG2 LIN-LIQ V7179 HOLDPJC	Liquid, or handle as liquid	06/05/95
S95T001014	BX103 SEG1 DRLIQ V6945 HOLDPJC	Liquid, or handle as liquid	06/05/95
S95T001015	BX103 SEG2 DRLIQ V6947 HOLDPJC	Liquid, or handle as liquid	06/05/95
S95T001019	BX103 SEG1 DRLIQ DIR V6997 DOSE-01	Liquid, or handle as liquid	06/05/95
S95T001020	BX103 C86 SEG2 DRLIQ DIR V7055 DOSE-01	Liquid, or handle as liquid	06/05/95
S95T001030	BX103 SEG1 DRLIQ ARCH V7183 ARCHIV01	Liquid, or handle as liquid	06/05/95
S95T001031	BX103 SEG2 DRLIQ ARCH V7184 ARCHIV01	Liquid, or handle as liquid	06/05/95
S95T001032	BX103 SEG1 DRLIQ FIL V6997 DOSE-02 DSC-03	Liquid, or handle as liquid FILTERO2 TGA-03	06/05/95
S95T001033	BX103 SEG2 DRLIQ FIL V7055 DOSE-02 DSC-03	Liquid, or handle as liquid	06/05/95
S95T000970	BX103 C86 SEG 1	Solid, or handle as if solid O1 EST.G/ML EXTRUDO1 LLIQWT	01 ်
S95T000971	BX103 C86 SEG 2 DLIQVOL1 DLIQWT	Solid, or handle as if solid Ol EST.G/ML EXTRUDO1 LLIQWT Ol SLDVOLOI SLDWT-01	05/26/95
S95T001016	BXIO3 SEG1 UH V6796 HOLDPJC	Solid, or handle as if solid	06/05/95
S95T001017	BX103 SEG2 LH V7138 HOLDPJC	Solid, or handle as if solid	06/05/95

Tank Characterization Program

PO Box 1970

Richland, WA 99352 Attn: Dave Bratzel

WHC-SD-WM-DP 135, REV. /

Customer Code: TCP

Group#: 95000080 Project#: BX-103 Proj Mgr: KEVIN BELL Phone: 373-1629

Sample#	Sample	e Id		Tests	Scheduled	Matrix				Sample Date	•
S95T001018	BX103	SEG2		V6797 HOLDPJ		Solid, or	handle a	s if	solid	06/05/95	
S95T001021	BX103	SEG1	UH		052	Solid, or DSC-02	handle a		solid	06/05/95	
S95T001022	BX103	SEG2	LH	DIR V7		Solid, or		is if	solid	06/05/95	
S95T001023	BX103	C86 S	EG2	UH DI	R V7053				solid	06/05/95	
S95T001024	BX103	SEG1	UH	FUS: V7	052			s if	solid	06/05/95	
\$95T001025	BX103	C86 S	EG2		S. V7056		handle a	as if	solid	06/05/95	
S95T001026	BX103	C86: S	EG2	UH FU	S V7053		handle a	s if	solid	06/05/95	
S95T001027	BX103	SEG1	UH .		7181	Solid, or		as if	solid	06/05/95	
S95T001028	BX103	C86 S	EG2		CH V7185	Solid, or	handle a	as if	solid	06/05/95	
S95T001029	BX103	C86 S	EG2		CH V7182	Solid, or	handle a	as if	solid	06/05/95	

Test Acronym Description

Test Acronym	Description
QALPHAO1 ARCHIVO1 DLIQVOL1 DLIQWTO1 DOSE-01 DOSE-02 DSC-02 DSC-03 EST.G/ML EXTRUD01 FILTER02 FUSION01 HOLDPJC LLIQWT01 NOTEBOOK ORGVOL01 PCREVIEW	Alpha of Digested Solid Archive aliq of sample/hotcell Drainable Liquid Recovrd - Vol Drainable Liquid Recoverd - Wt Dose Rate(hotcell) in mrad/hr Dose Rate(samp prep)in mrad/hr DSC Exotherm using Mettler DSC Exotherm Dry Calculated DSC Exotherm on Perkin Elmer Estimated g/mL - Calculated Extrusion of a Segment Filter Liquid / sample prep Fusion with KOH Hold for Proj Coord Attention Liner Liquid Recoverd - Weight Notebook with source data Organic Vol Present / hotcell Review by Project Coordinator
SLDVOLO1 SLDWT-01	Solids Recovered - Volume Solids Recovered - Weight

Tank Characterization Program

PO Box 1970

Test Acronym

TGA-01

TGA-03

Richland, WA 99352 Attn: Dave Bratzel Customer Code: TCP

WHC-SD-WM-DP-135, REV. /

Group#: 95000080 Project#: BX-103

Proj Mgr: KEVIN BELL Phone: 373-1629

Test Acronym Description	•
Description	
% Water by TGA using Mettler % Water by TGA on Perkin Elmer	

222-S Analytical Laboratory

P.O. BOX 1970 T6-06, Richland, WA 99352 PHONE: (509) 373-4225/FAX: (509) 373-0545

ACKNOWLEDGMENT OF SAMPLES RECEIVED

WHC-SD-WM-DP-135, REV.

Tank Characterization Program

PO Box 1970

Richland, WA 99352 Attn: Dave Bratzel Customer Code: TCP

Group#: 95000084
Project#: BX-103
Proj Mgr: KEVIN BELL

Phone: 373-1629

The following samples were received from you on 06/01/95. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using 222-S Analytical Laboratory.

Sample#	Sample	ld Tests Scheduled	Matrix	Sample Date
S95T001034	BX103 C	37 SEG1 DIR DRLIQ V7059 DOSE-01	9 Liquid, or handle as liquid	06/05/95
S95T001035	BX103 C		8 Liquid, or handle as liquid	06/05/95
S95T001036	BX103 C		Liquid, or handle as liquid 3 TGA-01	06/05/95
		DOSE-02 DSC-01		06/05/95
S95T001044	BX103 C	37 SEG2 DRLIQ FIL V7058 DOSE-02 DSC-01	B Liquid, or handle as liquid I FILTERO2 TGA-01	06/05/95
S95T001523	BX103 C	37 SEG1 DRLIQ J7140		05/30/95
S95T001526	BX103 C	37 SEG2_DRLIQ V7169	Liquid, or handle as liquid	05/30/95
S95T001528	BX103 C	37 FIELD BLANK J6798	Liquid, or handle as liquid	05/30/95
S95T001529	BX103 C	37 FIELD BLANK J7139	Liquid, or handle as liquid	05/30/95
S95T001530	BX103 C	37 SEGI LIQ ARCH V7193 ARCHIVO1	Liquid, or handle as liquid	05/30/95
S95T001004	BX103 C			01
S95T001005	BX103 C		Solid, or handle as if solid TO1 EST.G/ML EXTRUDO1 LLIQWT	05/30/95
S95T001006	BX103 C	37 FIELD BLANK DLIQVOL1 DLIQWI NOTEBOOK ORGVOL	Solid, or handle as if solid FOI EST.G/ML EXTRUDOI LLIQWT	
S95T001037	BX103 C	B7 SEG1 LH DIR V7057 DOSE-01 DSC-01	Solid, or handle as if solid	06/05/95

Tank Characterization Program

PO Box 1970

Richland, WA 99352 Attn: Dave Bratzel Customer Code: TCP

WHC-SD-WM-DP-135, REV. /

Group#: 95000084 Project#: BX-103 Proj Mgr: KEVIN BELL Phone: 373-1629

			Tests Scheduled	Matrix	Sample Date
S95T001038	BX103	C87	SEG1 UH DIR V7061 DOSE-01 DSC-01	Solid, or handle as if solid DSC-02 TGA-01	06/05/95
S95T001039	BX103	C87	SEG2 UH DIR V7060 DOSE-01 DSC-01	Solid, or handle as if solid	
S95T001040	BX103	C87	SEG2 UH FUS V7060 @ALPHA01 DOSE-0	Solid, or handle as if solid 2 FUSIONO1	06/05/95
S95T001041	BX103	C87	SEG1 UH FUS V7061 @ALPHA01 DOSE-0		06/05/95
S95T001042	BX103	C87		Solid, or handle as if solid	06/05/95
S95T001524	BX103	C87	SEG1 LH J6799	Solid, or handle as if solid	05/30/95
S95T001525	BX103	C87	SEG1 UH J7070	Solid, or handle as if solid	05/30/95
S95T001527	BX103	C87	SEG2 UH J7141	Solid, or handle as if solid	05/30/95
S95T001531	BX103	C87	SEGI LH ARCH V7192 ARCHIVOI	Solid, or handle as if solid	05/30/95
S95T001532	BX103	C87	SEGI UH ARCH V7195 ARCHIVOI	Solid, or handle as if solid	05/30/95
S95T001533	BX103	C87	SEG2 UH ARCH V7194 ARCHIVOI	Solid, or handle as if solid	05/30/95

Test Acronym Description

Test Acronym	Description
QALPHA01 ARCHIVO1 DLIQVOL1 DLIQWT01 DOSE-01 DOSE-02 DSC-03 EST.G/ML EXTRUD01 FILTER02 FUSION01 LLIQWT01 NOTEBOOK ORGVOL01 PCREVIEW SLDVOL01	Alpha of Digested Solid Archive aliq of sample/hotcell Drainable Liquid Recoverd - Vol Drainable Liquid Recoverd - Wt Dose Rate(hotcell) in mrad/hr Dose Rate(samp prep)in mrad/hr DSC Exotherm using Mettler DSC Exotherm Dry Calculated DSC Exotherm on Perkin Elmer Estimated g/mL - Calculated Extrusion of a Segment Filter Liquid / sample prep Fusion with KOH Liner Liquid Recoverd - Weight Notebook with source data Organic Vol Present / hotcell Review by Project Coordinator Solids Recovered - Volume

Tank Characterization Program

PO Box 1970

Richland, WA 99352 Attn: Dave Bratzel

WHC-SD-WM-DF-/35, REV. / Customer Code: TCP

Group#: 95000084 Project#: BX-103 Proj Mgr: KEVIN BELL Phone: 373-1629

		~ '.	
LOCT	Acronym	HASCRI	กรากก
1636	TICL OUT THE	CCSCII	P C 1 O 14

_	Test Acronym	Description
	SLDWT-01 TGA-01 WATER-01	Solids Recovered - Weight % Water by TGA using Mettler % Water by Gravimetric

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SAMPLE HANDLING

1

Analys	t:	20	Instr	ument:	BA000		Book	# _ /v',	<u> </u>	
Method	l: LO-160-1	03 Rev/Mod	1 <u>A</u>	1						
Workli	st Commen	t: BX-103 C	286 Segme	nt #1 Rise	er 7 Extrusion	n	•			
GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	ÐL	UNIT
		1 INSTCHK01			EXTRUDÔ1	SOLID	209	20.00	N/A	
		2 INSTCHKO2			EXTRUD01	SOLID	500 g	499.78	N/A	
95000080	BX-103	3 SAMPLE	s95T000970	0	DLIQVOL1	SOLID	N/A	210		mL
95000080	BX-103	4 SAMPLE	S95T000970	0	DLIQWT01	SOLID	N/A	221.7	<u>!</u>	. g
95000080	BX-103	5 SAMPLE	S95T000970	0	EST.G/ML	SOLID	N/A		,	g/mL
95000080	BX-103	6 SAMPLE	S95T000970	0	EXTRUD01	SOLID	N/A	(cingl	<u>ete</u>	
95000080	BX-103	7 SAMPLE	S95T000970	0	LLIQWT01	SOLID	N/A	<u> </u>	 	g
95000080	BX-103	8 SAMPLE	S95T000970	0	NOTEBOOK	SOLID	N/A	N-117	3	
95000080	BX-103	9 SAMPLE	S95T000970	0	SLDVOL01	SOLID	N/A	<u>33</u>		mL
95000080	BX-103	10 SAMPLE	S95T000970	0	SLDWT-01	SOLID	N/A	<u>33</u>		g
95000080	BX-103	11 SAMPLE	s95T000970	0	ORGVOL01	SOLID	N/A			, mL
			Fin	al pag	e for wo	rklis	t # 14	62		
<-	10	4	6-1-9	5		5	46	· ;	k -	1-95
Afralys	t Signature	Date		<i>?</i>		Analy	st Signa	ture	Date	<u>, </u>
Data En	try Comments.									
		2 K7	Ju-			<u> </u>	***			
	Par	1/2/99		· · · - · · · · · · · · · · · · · · · ·				 · <u>"</u>		
		UN					· · · · · · · · · · · · · · · · · · ·			

1

Analys	t:	ž (4 -		BA000		Book	#_NA	i	
Method	d: LO-160-1	03 Rev/Mod	ı <u>A-</u> C	<u></u>						
Workli	st Commer	nt: BX-103 C	286 Segme	ent #2 Ri	ser 7 Extrusio	n				
GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>205</u>	19,99	N/A	-
		2 INSTCHKO2			EXTRUD01	SOLID	500g	499.78	N/A	•
95000080	BX-103	3 SAMPLE	\$951000971	0	DLIQVOL1	SOLID	N/A	<u>20</u>		mL
95000080	BX-103	4 SAMPLE	S95T000971	0	DLIQWT01	SOLID	N/A	21		g
95000080	BX-103	5 SAMPLE	S95T000971	0	EST.G/ML	SOLID	N/A			g/mL
95000080	BX-103	6 SAMPLE	s95T000971	0	EXTRUD01	SOLID	N/A	(Cing fo	<u>te </u>	
95000080	BX-103	7 SAMPLE	s95T000971	0	LLIQWT01	SOLID	N/A	<u> </u>		g
95000080	BX-103	8 SAMPLE	S95T000971	0	NOTEBOOK	SOLID	N/A	N-11)	73	
5000080	8x-103	9 SAMPLE	S95T000971	0	SLDVOL01	SOL ID	N/A	282		mL
75000080	BX-103	10 SAMPLE	s951000971	0	SLDWT-01	SOLID	N/A	282		. g
95,000080	BX-103	11 SAMPLE	S95T000971	0	ORGVOL01	SOLID	N/A			mL
			F in	ol no	go for wa	mlelia:	+ # 1 //	62		·
rt.	2 1	, /	FIII	ıaı pa	ge for wo)[KIIS	l#140	D .5		
	10	1	6-1-9	5			1	X	6	<u>-/-95</u>
Analys	t Signature	Date				Analy	st Signa	ture	Date	
•										
Data En	try Comments	:								•
			<u> </u>	luy	,					
		(Keururt	2x 2 12/2/4			 , .			

Method: LO-160-103 Rev/Mod	Analyst	t: _	50	Instr	ument:	BA000		Book	:#_ <i>\\\\</i>	4	
GROUP PROJECT S TYPE SAMPLE# R ATEST	Method	l: LO-160	-103 Rev/Mo	d <u>A</u> -	2						
1 INSTCHKO1 2 INSTCHKO2 EXTRUDO1 SOLID N/A 1/10 mL 1	Workli	st Comme	ent: BX-103 (C87 Segme	nt # 1 R	iser 2 Extrus	ion				
2 INSTCHK02 EXTRUDO1 SOLID SCD. 49978 N/A 95000084 BX-103 3 SAMPLE S95T001004 0 DLIQVOL1 SOLID N/A 1/90 mL 95000084 BX-103 4 SAMPLE S95T001004 0 DLIQWTO1 SOLID N/A 2/4 g 95000084 BX-103 5 SAMPLE S95T001004 0 EST.G/ML SOLID N/A 1/3 g/mL 95000084 BX-103 6 SAMPLE S95T001004 0 EXTRUDO1 SOLID N/A COmy to the set of the	GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000084 BX-103			1 INSTCHKO1			EXTRUD01	SOLID	<u> 205</u>	19.99	N/A	···•
95000084 BX-103			2 INSTCHKO2			EXTRUD01	SOLID	<u> </u>	499.78	N/A	_
95000084 BX-103	95000084	8x-103	3 SAMPLE	S95T001004	0	DLIQVOL1	SOLID	N/A	190		_ mL
95000084 BX-103 6 SAMPLE S95T001004 0 EXTRUDO1 SOLID N/A Comy lete 95000084 BX-103 7 SAMPLE S95T001004 0 LLIQHT01 SOLID N/A Comy lete 95000084 BX-103 8 SAMPLE S95T001004 0 NOTEBOOK SOLID N/A	95000084	8x-103	4 SAMPLE	S95T001004	0	DLIQWT01	SOLID	N/A	214		_ g
95000084 BX-103 7 SAMPLE S95T001004 0 LLIQWT01 SOLID N/A C g 95000084 BX-103 8 SAMPLE S95T001004 0 NOTEBOOK SOLID N/A	95000084	BX-103	5 SAMPLE	S95T001004	0	EST.G/ML	SOLID	N/A	1.13		_ g/mL
95000084 BX-103 8 SAMPLE S95T001004 0 NOTEBOOK SOLID N/A N'-1/73 95000084 BX-103 9 SAMPLE S95T001004 0 SLDVOLO1 SOLID N/A 97 ml. 95000084 BX-103 10 SAMPLE S95T001004 0 SLDWT-01 SOLID N/A 97 ml. 95000084 BX-103 11 SAMPLE S95T001004 0 ORGVOLO1 SOLID N/A 97 ml. Final page for worklist # 1479	95000084	BX-103	6 SAMPLE	S95T001004	0	EXTRUD01	SOLID	N/A	· (Omy /2	te	-
95000084 BX-103 9 SAMPLE S95T001004 0 SLDVOL01 SOLID N/A 97 ml. 95000084 BX-103 10 SAMPLE S95T001004 0 SLDWT-01 SOLID N/A 97 g 95000084 BX-103 11 SAMPLE S95T001004 0 ORGVOL01 SOLID N/A 97 ml. Final page for worklist # 1479 5 1 2 4 4 5 7 - 95	95000084	BX~103	7 SAMPLE	S95T001004	0	LLIQWT01	SOLID	N/A	0		_ g
95000084 BX-103 10 SAMPLE \$95T001004 0 SLDWT-01 SOLID N/A 94 g 95000084 BX-103 11 SAMPLE \$95T001004 0 ORGVOLO1 SOLID N/A 0 ml Final page for worklist # 1479 5444 5-7-95	95000084	BX-103	8 SAMPLE	s95T001004	0	NOTEBOOK	SOLID	N/A	N-117	3	_
Final page for worklist # 1479 5-7-95 5-7-95 5-7-95 5-7-95	95000084	BX-103	9 SAMPLE	S95T001004	0	SLDVOL01	SOLID	N/A	91		_ mL
Final page for worklist # 1479 5-7-95 5-7-95	95000084	BX-103	10 SAMPLE	\$95T001004	0	SLDWT-01	SOLID	N/A	94		_ g
EACH 5-7-95 EACH 67-95	95000084	BX-103	11 SAMPLE	S95T001004	0	ORGVOL01	SOLID	N/A			_ mL
EACH 5-7-95 EACH 67-95				Fin	al na	ge for w	orklist	# 1 <i>4</i> ′	79		
	رکے	10	1 5	- 7-9	P	50 101 11	2	L		6.7	-95
Analyst Signature Date Analyst Signature Date	Analyst	Signatur	e Date				Analy	st Signa	ture	Date	
									,		
	Data En	try Commen	ts:							•	
Data Entry Comments:				b1							
Data Entry Comments:			$ \bigcirc$	المالقات ا	-,						

worklistrpt Version 2.0 02/21/95 06/02/95 14:16

Analys	t: _	EC	Instr	ument: B	A000		Book	* #	<u> </u>	
Method	l: LO-160	-103 Rev/Mo	d <u>A-</u>	7_						
Workli	st Comme	ent: BX-103	Ċ87 Segme	nt # 2 Rise	r 2 Extrusio	n				
GROUP	PROJECT	S TYPE	SAMPLE#	R A	-TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHKO1		ı	EXTRUD01	SOLID	209	19,97	N/A	-
	-	2 INSTCHKOZ	!	1	EXTRUD01	SOLID	500g	499.92	N/A	.
95000084	BX-103	3 SAMPLE	S95T001005	0	DLIQVOL1	SOLID	N/A	15		_ mL
95000084	BX-103	4 SAMPLE	S95T001005	0	DLIQWT01	SOLID	N/A	18		_ g
95000084	BX-103	5 SAMPLE	S95T001005	0	EST.G/ML	SOLID	N/A	1.2		_g/mL
95000084	BX-103	6 SAMPLE	s95T001005	0	EXTRUD01	SOLID	N/A	comple	1-0	_
95000084	BX-103	7 SAMPLE	S95T001005	0	LLIQWT01	SOLID	N/A	<u> 5</u> 5		_ g
95000084	BX-103	8 SAMPLE	\$951001005	0	NOTEBOOK	SOLID	N/A	<u>N-117</u>	3	<u>.</u>
5000084	BX-103	9 SAMPLE	S95T001005	0	SLDVOL01	SOLID	N/A	244		_ mL
95000084	BX-103	10 SAMPLE	S95T001005	0	SLDWT-01	SOLID	N/A	244		_ 9
95000084	BX-103	11 SAMPLE	S95T001005	0	ORGVOL01	SOLID	N/A	<u> </u>	<u> </u>	_ mL
Analys	J (re Date	6-7-	al page	e for wo	5	t # 14	24	, <u>(</u>) – (7-95
Data En	ntry Commen	nts:								
			Durene (h	ry						
			au tr	1862						

Analyst	t:	ξ <u>(</u>	Instr	ument:	BA000		Book	k#	NA	
Method	1: LO-160-	103 Rev/Mod	ı <u>A -</u> ſ	7_						
Workli	st Comme	nt: BX-103 C	C87 Field E	Blank Ris	ser 2 Extrusio	n .				
GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u> </u>	20.0	<u>() N/A</u>	
		2 INSTCHKO2			EXTRUD01	SOLID	<u> Soo</u>	499,9	8 N/A	NB 8/30/91
95000084	BX-103	3 SAMPLE	S95T001006	0	DLIQVOL1	SOLID	N/A	. 28(778.0	** 3/30/73 *** *** *** *** *** *** *** *** ***
95000084	BX-103	4 SAMPLE	S95T001006	0	DL I QWT 01	SOLID	N/A	}{(278.03 	9
95000084	BX-103	5 SAMPLE	S95T001006	0	EST.G/ML	SOLID	N/A			g/mL
95000084	BX-103	6 SAMPLE	S95T001006	0	EXTRUD01	SOLID	N/A	compl	ete	
95000084	BX-103	7 SAMPLE	S95T001006	0	LLIQWT01	SOLID	N/A	<u>Ó</u>		g
95000084	8X-103	8 SAMPLE	S95T001006	0	NOTEBOOK	SOLID	N/A	WHC-N	<u>-1/73 · </u>	
95000084	BX-103	9 SAMPLE	S95T001006	0	SLDVOL01	SOLID	N/A	<u> </u>		mL
95000084	BX-103	10 SAMPLE	S95T001006	0	SLDWT-01	SOLID	N/A	<u> </u>		g
95000084	8X-103	11 SAMPLE	S95T001006	0	ORGVOL01	SOLID	N/A			mL.
			Fin	al pag	ge for wo	rklist	t # 14	78		
	10			_	J		1 / T) , 1	/	
Analysi	t Signature	Date	- 7-9	>		Analy	st Signa	ture	Date	<u> </u>
-	.					J				
Data En	try Comment.	s:	RK Fuller	- 6/1	195				-	

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Analyst:	RH	(7	Instr	ument:	BA000		Bool	k #		
Method:	LO-160-10	3 Rev/Mod	1_A-7							
Worklist	Comment	: BX-103 A	Archive Sar	nples						
GROUP 8	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHKO1			EXTRUD01	SOLID	20	20,00	N/A	_
		2 INSTCHKO2			EXTRUD01	SOLID	<u>500</u>	49493	N/A	_
950000 8 0 E	BX-103	3 SAMPLE	s95T001030	0 x 718	ARCHIVO1	LIQUID	N/A	47.3		_ 9
95000080 (BX-103	4 SAMPLE	\$95T001031	0 x 7/84	ARCHIV01	LIQUID	N/A	_ 3,6		_ g
95000080	BX-103	5 SAMPLE	S95T001027	0 x 7/8/	ARCHIV01	SOLID	N/A	16.5	-	g
950000 8 0 i	BX-103	6 SAMPLE	S95T001028	0 X 77/85	ARCHIV01	SOLID	N/A	55.7		_ 9
95000080	BX-103	7 SAMPLE	\$95T001029	0 x 7/32	ARCHIV01	SOLID	N/A	64.8		9
Hick	je Frie	20 7/	Fin 14 95	aı pag -	e for wo	T T	o, Lith e	J Fireles		4/95
Analyst S	Signature	Date				Analy	st Signa	ature	Date	
Data Entr	y Comments:			,						
		tevien	est by	KK Full	3. 7/14/9	1				

Method: LO-160-103 Rev/Mod	worklistrpt V	ersion 2.1 05/15/95	WHC-SD-WM-OF	0./35, REV./	Page:
Method: LO-160-103 Rev/Mod N-7 Morklist Comment: BX-103 C87 SEG 182 UH&LH SOLIDS&DRAINABLE LIQUID ARCHIVES. STOLID PROJECT \$ TYPE SAMPLED B ATEST	08/18/95 15:00	LABCORE Data Entr	y Template for Wor	rk1ist# 2049	
## PROJECT S TYPE SAMPLES R ATEST MATRIX ACTUAL FOUND DL UNIT 1 INSTCHKO1 EXTRUDOT SOLID 2D 1999 N/A 2 INSTCHKO2 EXTRUDOT SOLID DD 4998 N/A PROJECT S TYPE SAMPLES R ATEST MATRIX ACTUAL FOUND DL UNIT 1 INSTCHKO2 EXTRUDOT SOLID DD 4998 N/A PROJECT S TYPE SAMPLES R A	Analyst:	ABC Ins	strument: BA000 _	Book #	
1 INSTCHEO SAMPLE RATEST WATRIX ACTUAL FOUND DL UNIT 1 INSTCHEO! EXTRUDO! SOLID 22 19.99 M/A 2 INSTCHEO2 EXTRUDO! SOLID 500 499.98 M/A P5000084 EX-103 3 RAMPLE E95T001531 D x 7/P2 ARCHIVO! SOLID M/A 7.28 9 P5000084 EX-103 4 EAMPLE S95T001532 O x 7/19 7 ARCHIVO! SOLID M/A 51.3 9 P5000084 EX-105 5 RAMPLE S95T001533 O x 7/19 7 ARCHIVO! SOLID M/A 69.0 9 P5000084 EX-105 6 SAMPLE S95T001530 O x 7/19 3 ARCHIVO! LIQUID M/A 49.0 9 Final page for worklist \$ 2049 Analyst Signature Date Bafch 4 98.00 2 115 98.00 2 115	Method: LO-10	60-103 Rev/Mod <u> </u>	-7_		•
1 INSTCHK01 2 INSTCHK02 EXTRUDOT 30LID 50D 47978 N/A P5000084 BX-103 3 SAMPLE 695T001531 D X 7P2 ARCHIVOT 50LID 50D 47978 N/A 95000084 BX-103 4 SAMPLE 595T001532 O X 7P9 ARCHIVOT 50LID 5	Worklist Comm	ent: BX-103 C87 SEG	1&2 UH&LH SOLIDS&	DRAINABLE LIQUID ARCHIVES.	
2 INSTCHKO2 EXTRUDO1 SOLID SDD 47978 N/A 95000084 BX-103 3 BAMPLE 695001531 D X 7P2 ARCHIVO1 SOLID N/A 7.20 9 95000084 BX-103 4 BAMPLE 895001532 D X 7197 ARCHIVO1 SOLID N/A 51.3 9 95000084 BX-103 5 BAMPLE 895001533 D X 7197 ARCHIVO1 SOLID N/A 69.0 0 95000084 BX-103 6 BAMPLE 895001530 D X 7193 ARCHIVO1 LIQUID N/A 1971 0 Final page for worklist 8 2049 Analyst Signature Date Date Date Date Analyst Signature Date	GROUP PROJECT	\$ TYPE SAMPLES	R ATEST	- MATRIX ACTUAL FOUND DL	UNIT
95000084 EX-103 3 SAMPLE 695T001531 D X 7M2 ARCHIVO1 SOLID N/A 7.20 0 95000084 EX-103 4 SAMPLE 995T001532 O X 719 SARCHIVO1 SOLID N/A 51.3 0 95000084 EX-103 5 SAMPLE 995T001533 O X 719 ARCHIVO1 SOLID N/A 69.0 0 95000084 EX-103 6 SAMPLE 995T001530 O X 7193 ARCHIVO1 LIQUID N/A 47.1 09 Final page for worklist # 2049 Analyst Signature Date Bafch * 98.002115 97.002117		1 INSTCHKO1	EXTRUDO1		<u> </u>
### PS000084 BX-103		2 INSTCHKO2	EXTRUDO1	SOLID 500 49998 N	<u> </u>
### STOODS STAMPLE \$957001533 0 x 7194 ARCHIVO1 SOLID 1/A 69.0 8 ### STOODS 8x-103 6 SAMPLE \$957001530 0 x 7193 ARCHIVO1 LIQUID 1/A 49.1 9 ### STOODS 4	95000084 BX-103	3 SAMPLE 69510015	31 0 x 7 P12 ARCHIVO1	solid <u>N/A 7,28</u>	9
Final page for worklist # 2049 Analyst Signature Date Batch # 95002115 7 002117	95000084 Bx-103	4 SAMPLE \$95T0015	32 0 x 719 5 ARCHIVO1		9
Alem Cambell 8-18-96 Analyst Signeture Date Barch \$98002115 99002117	95000084 BX-103	5 SAMPLE \$9510015	33 0 x 7194 ARCHIVO1	SOLID NA 69.0	s
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